

- 3.17 RADIO AND ELECTRONICS (Cont)
- 3.17.2.3.7  
(Cont) avoid speaker locations that will cause acoustical feedback between microphones and speakers. Terminal strips at speaker locations shall be permanently coded to maintain correct speaker phasing. The speaker leads shall be similarly coded.
- 3.17.2.4  
(3.17-17) AIRBORNE SELECTIVE CALLING: Provisions for dual channel selective calling equipment shall be made in accordance with AIRINC Characteristic 531A.
- 3.17.3 NAVIGATION EQUIPMENT:
- 3.17.3.1 AUTOMATIC RADIO COMPASS (ADF): Two ADF receivers shall be installed in the radio rack.
- 3.17.3.1.1 ANTENNAS: Two flush type loop antennas shall be installed on the bottom surface of the fuselage. Two flush type antennas shall be located in the underside of the wing in the trailing edge. The ADF installation shall perform such that over-station operation shall effect pointer reversal as the aircraft intersects a cone not to exceed 10 degrees beyond a line extending above the station. Over-station reversal shall be confirmed by flight tests using a simultaneous range facility. A master deviation correction curve shall be established to which all airplanes under this contract will conform within an envelope of  $\pm 3$  degrees, excepting on homing and homing reciprocal where conformance shall be within  $\pm 1$  degree. The above conformance shall be obtained with landing gear fully extended or fully retracted. The operation of either ADF system shall not interfere with the operation of the other under any operating condition. Insofar as possible, electrical wiring shall not be routed in the vicinity of the ADF sense antennas or loops.
- 3.17.3.1.2  
(3.17-18) CONTROL: Control for the ADF system shall be provided in the radio control panel. The heading data shall be connected to the RMI indicators.
- 3.17.3.2  
(3.17-D9) MARKER BEACON RECEIVER: The receiver shall be located in the radio rack. Two sets of marker lights (3 lights each) shall be installed on the instrument panel as shown in Figure 3.17-1. Controls for the marker beacon shall be located on the radio portion of the cockpit pedestal.
- 3.17.3.2.1 ANTENNA: The antenna shall be a semi-flush type located on the underside of the fuselage.



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3.17 RADIO AND ELECTRONICS (Cont)

- 3.17.3.3 INSTRUMENT LANDING SYSTEM: Two glide slope receivers shall be installed in the radio rack. Localizer and glide slope channels shall be selected by the VHF navigation receiver control units. Two deviation indicators shall be installed, one on the pilot's and one on the copilot's panel.
- 3.17.3.3.1 ANTENNA: The glide slope antenna shall be installed on the fuselage nose structure above the radar antenna scanner.
- 3.17.3.4 DUAL VHF NAVIGATION SYSTEM: Two VHF navigational receivers shall be installed in the radio rack. These receivers shall provide navigational facilities in the omni-range and localizer frequencies. Two power supplies and two RMI servo amplifiers, if required, shall be installed in the radio rack. The power supplies shall be wired for both dc and ac operation.
- 3.17.3.4.1 CONTROLS: Frequency selector controls for the VHF navigation system shall be installed in the radio control panel. Instrumentation output and instrumentation control circuits for VHF navigation, ADF and glide slope equipment shall be connected to the appropriate navigation indicators located on the instrument panels. Switching and interconnection shall be installed in accordance with the Buyer's requirements. The installation shall be subject to Buyer approval at mock-up.
- 3.17.3.4.2 ANTENNA: One VHF navigation antenna of the flush type shall be installed on the vertical stabilizer and designed for reception of the VHF navigation and runway localizer signals.
- 3.17.3.5 DISTANCE MEASURING EQUIPMENT TACAN: Provisions shall be made in the radio rack for dual DMET systems. A circuit breaker and fuse shall be installed for each.
- 3.17.3.5.1 INDICATORS: Space shall be provided on the pilot's and on the copilot's instrument panels for a 3-inch dual counter DMET indicator. Control wiring shall be installed from the VHF navigation No. 1 and VHF navigation No. 2 selector switches to the radio junction box for control of dual equipment.
- 3.17.3.5.2 ANTENNAS: Two DMET antennas shall be installed, one on top of fuselage and one on bottom of fuselage.



3.17 RADIO AND ELECTRONICS (Cont)

- 3.17.3.3 INSTRUMENT LANDING SYSTEM: Two glide slope receivers shall be installed in the radio rack. Localizer and glide slope channels shall be selected by the VHF navigation receiver control units. Two deviation indicators shall be installed, one on the pilot's and one on the copilot's panel.  
(3.17-20)
- 3.17.3.3.1 ANTENNA: The glide slope antenna shall be installed on the fuselage nose structure above the radar antenna scanner.  
(3.17-21)
- 3.17.3.4 DUAL VHF NAVIGATION SYSTEM: Two VHF navigational receivers shall be installed in the radio rack. These receivers shall provide navigational facilities in the omni-range and localizer frequencies. Two power supplies and two RM servo amplifiers, if required, shall be installed in the radio rack. The power supplies shall be wired for both dc and ac operation.
- 3.17.3.4.1 CONTROLS: Frequency selector controls for the VHF navigation system shall be installed in the radio control panel. Instrumentation output and instrumentation control circuits for VHF navigation, ADF and glide slope equipment shall be connected to the appropriate navigation indicators located on the instrument panels. Switching and interconnection shall be installed in accordance with the Buyer's requirements. The installation shall be subject to Buyer approval at check-up.  
(3.17-48)
- 3.17.3.4.2 ANTENNA: One VHF navigation antenna of the flash type shall be installed on the vertical stabilizer and designed for reception of the VHF navigation and runway localizer signals.
- 3.17.3.5 DISTANCE MEASURING EQUIPMENT (Provisions): Provisions shall be made in the radio rack for dual DME systems. A circuit breaker and fuse shall be installed for each.  
(3.17-22)
- 3.17.3.5.1 INDICATORS: Space shall be provided in the pilot's and copilot's instrument panels for the indicator. Control wiring shall be installed from the VHF navigation No. 1 and VHF navigation No. 2 selector switches to the radio junction box for control of dual equipment.  
(3.17-23)
- 3.17.3.5.2 ANTENNAS: Structural and space provision shall be made on the bottom of the fuselage for the antennas.  
(3.17-24)

3.17 RADIO AND ELECTRONICS (Cont)

3.17.4 RADAR:

3.17.4.1 WEATHER PENETRATION AIRBORNE RADAR: A radar receiver/transmitter conforming to ARINC Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within the radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to ARINC Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.

3.17.4.2 Deleted

3.17.4.3 Deleted

3.17.4.4 RADAR SAFETY BEACON (PROVISIONS): Provisions shall be made for the installation of a dual ATC transponder beacon system.

3.17.4.4.1 CONTROL: One dual ATC transponder beacon control shall be installed in the radio control panel.

3.17.4.4.2 ANTENNA: Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.

3.17.5 STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARINC Specification No. 306.

3.17.6 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockpit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.

3.18 ARMAMENT: Not required.



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### 3.17 RADIO AND ELECTRONICS (Cont)

3.17.2.3.7 to the speakers through a 70.7 volt system, with transformers at each speaker. A speaker shall be provided on each side of the cabin for at least every two rows of seats. Speakers shall have an equivalent cone diameter of 6-inches, with maximum acoustical baffling. The speakers shall be located below the overhead stowage racks on each side of the aisle. Speaker mounting shall be designed to facilitate replacement of the speaker and circuit connections without removal of upholstery or fixtures. Precautions shall be taken to avoid speaker locations that will cause acoustical feedback between microphones and speakers. Terminal strips at speaker locations shall be permanently coded to maintain correct speaker phasing. The speaker leads shall be similarly coded.

3.17.2.4 AIRBORNE SELECTIVE CALLING: Provisions for dual channel selective calling equipment shall be made in accordance with ARINC Characteristics 531A.

3.17.2.4.1 AIRBORNE SELECTIVE CALLING CONTROL: A SEL-CAL panel shall be installed in the radio control panel. Audio to the SEL-CAL unit shall be selected by the selector switches on the panel. An indicator light for each channel shall be installed on the panel. Audio from #1 and #2 H.F. and #1 and #2 VHF communications may be selected by either SEL-CAL Channel. A single chime shall be installed and connected to each SEL-CAL intermittent channel. Provisions for "Reset" shall be accomplished on the SEL-CAL panel.

### 3.17.3 NAVIGATION EQUIPMENT:

3.17.3.1 AUTOMATIC RADIO COMPASS (ADF): Two ADF receivers shall be installed in the radio rack.

3.17.3.1.1 ANTENNAS: Two flush type loop antennas shall be installed on the bottom surface of the fuselage. Two flush type antennas shall be located in the underside of the wing in the trailing edge. The ADF installation shall perform such that over-station operation shall effect pointer reversal as the aircraft intersects a cone not to exceed 10 degrees beyond a line extending above the station. Over-station reversal shall be confirmed by flight tests using a simultaneous range facility. A master deviation correction



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3.17 RADIO AND ELECTRONICS (Cont)

3.17.4 RADAR:

3.17.4.1 WEATHER PENETRATION AIRBORNE RADAR: A radar receiver/transmitter conforming to ARINC Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within an adequately de-iced radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to ARINC Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.

3.17.4.2 Deleted

3.17.4.3 Deleted

3.17.4.4 RADAR SAFETY BEACON: An ATC transponder beacon shall be installed. Provisions shall be made for a second unit. Both installations shall conform to ARINC Characteristic No. 532A.

3.17.4.4.1 CONTROL: One dual ATC transponder beacon control shall be installed in the radio control panel.

3.17.4.4.2 ANTENNA: Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.

3.17.5 STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARINC Specification No. 306.

3.17.6 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockpit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.

3.18 ARMAMENT: Not required.



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3.17 RADIO AND ELECTRONICS (Cont)

3.17.4 RADAR:

48 3.17.4.1 WEATHER PENETRATION AIRBORNE RADAR: A radar receiver/transmitter conforming to ARINC Characteristic No. 529 "C" Band shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (30" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within an adequately de-iced radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to ARINC Characteristic No. 529, with respect to size, shall be installed in the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with ARINC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.

48 3.17.4.2 Deleted

17 3.17.4.3 Deleted

3.17.4.4 RADAR SAFETY BEACON: An ATC transponder beacon shall be installed. Provisions shall be made for a second unit. Both installations shall conform to ARINC Characteristic No. 532A.

48 3.17.4.4.1 CONTROL: One dual ATC transponder beacon control shall be provided in the radio control panel.

3.17.4.4.2 ANTENNA: Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.

3.17.5 STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with ARINC Specification No. 306.

3.17.6 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockpit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.

3.18 ARMAMENT: Not required.



3.17 RADIO AND ELECTRONICS (Cont)

3.17.4 RADAR:

3.17.4.1 WEATHER PENETRATION AIRBORNE RADAR: A radar receiver/transmitter conforming to AIRMIC Characteristic No. 529 "C" Rad shall be installed. Consideration shall be given to placing the receiver/transmitter and accessory unit in the radio rack. An antenna (34" diameter dish), capable of at least 180 degrees horizontal scanning, shall be installed within an adequately anti-iced radome. The radome shall be suitably hinged and supported to permit ready maintenance access. One range-azimuth indicator conforming to AIRMIC Characteristic No. 529, with respect to size, shall be installed on the center slant panel of the instrument board in accordance with pedestal layout shown in Figure 3.17-1. A control panel in accordance with AIRMIC Characteristic No. 529 shall be installed as shown on pedestal layout, Figure 3.17-1.

3.17.4.2 TERRAIN WARNING TRANSMITTER: Space provisions for a terrain warning transmitter shall be made.

3.17.4.3 IDENTIFICATION RADAR (CPA): Space provisions shall be made for an identification radar transmitter receiver.

3.17.4.4 RADAR SAFETY BEACON: An ATC transponder beacon shall be installed. Provisions shall be made for a second unit. Both installations shall conform to AIRMIC Characteristic No. 532A.

3.17.4.4.1 CONTROL: One ATC transponder beacon control shall be provided on the radio control panel and provisions shall be made for a second.

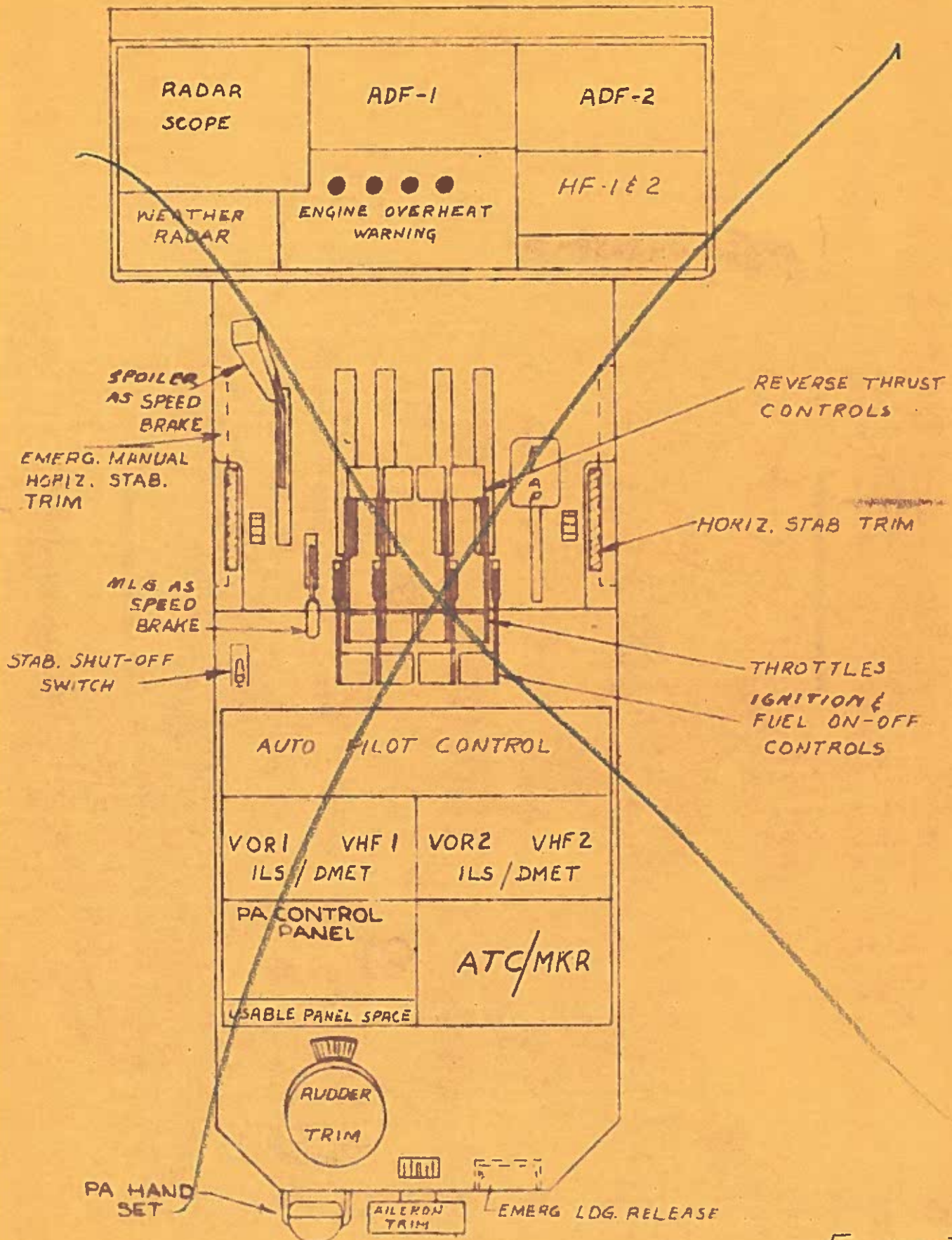
3.17.4.4.2 ANTENNA: Two ATC antennas shall be installed at practical locations favorable to best radiation patterns in such a manner as to provide the best complementary pattern.

3.17.5 STATIC DISCHARGERS: Static discharger assemblies shall be installed in general accordance with AIRMIC Specification No. 306.

3.17.6 RADIO FREQUENCY PLACARD HOLDER: A lighted radio frequency placard holder shall be installed in the cockpit convenient for the observation of both pilots. The design and installation of this placard holder shall be subject to cockpit mock-up approval.

3.18 ARMAMENT: Not required.





PILOTS & CO-PILOTS PEDESTAL

FIGURE 3.17-1







ANALYSIS  
PREPARED BY  
CHECKED BY  
REVISED BY

CONVAIR

PART 23  
REPORT NO. 23-903  
MODEL  
DATE

# PITOT STATIC SYSTEM SCHEMATIC

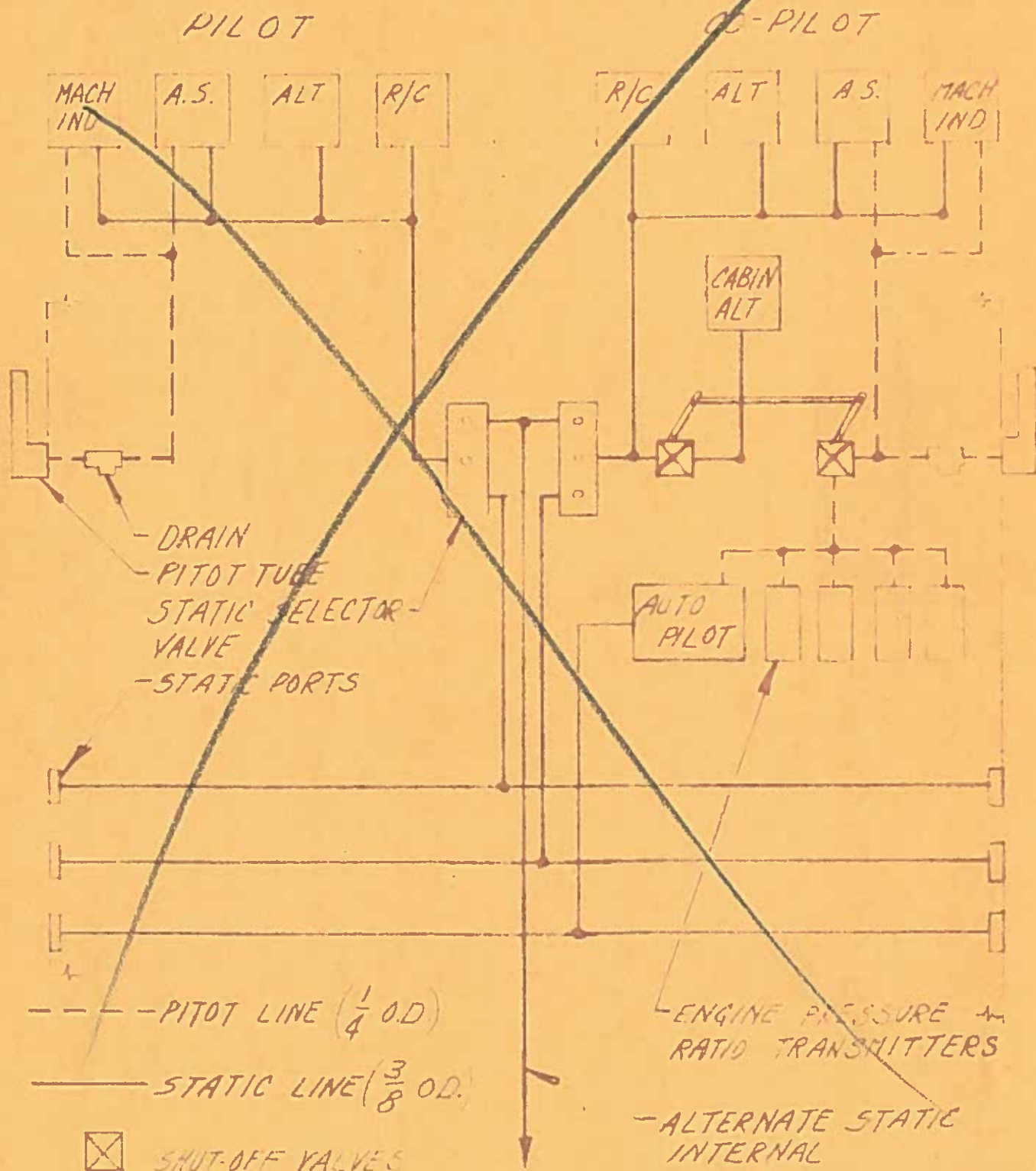


FIGURE 3.17-2



CONVAIR: SD

Page 108C  
Report ZD-22-00.  
Model 22  
Date 9-20-56  
Rev 5-20-58

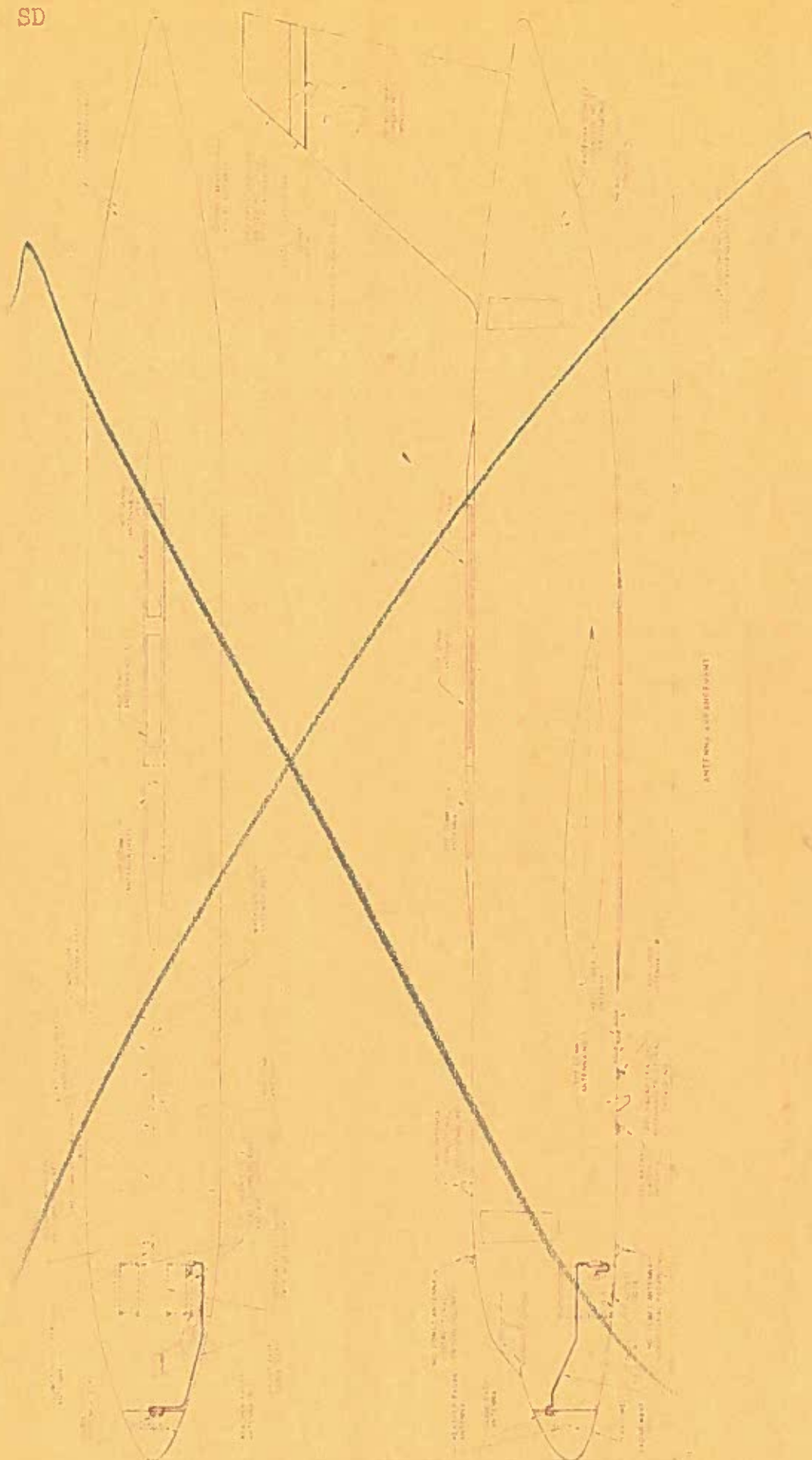


FIGURE 3.17-3



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3.19 FURNISHINGS AND EQUIPMENT:

3.19.1 ACCOMMODATIONS FOR PERSONNEL:

138 3.19.1.1 INTERIOR: The interior shall include furnishings and equipment for 84 passengers, including 12 club area passengers, plus crew accommodations. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full coach interior as shown on Figure 1-3, and as further described herein.

All of the configurations shall include standard cabin windows at each seat row.

The interior design details, including furnishings, seats, finish specifications and color and trim, shall be subject to Buyer approval and mockup.

3.19.1.1.1 SEATS: All seats shall be equipped with vinyl-foam or equivalent cushions and shall be designed, wherever practicable, in accordance with Guggenheim Foundation and NACA Crash Research. Seat attaching fittings and seat carry-through structure shall be of ductile material so that shock loads, within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in slip cover form.

3.19.1.1.2 PILOT'S, COPILOT'S AND FLIGHT ENGINEER'S SEATS: Seats shall be provided for the pilot, copilot and flight engineer, which shall have a minimum adjustment of five inches vertically, and seven inches fore and aft. The seats shall be removable and the pilot's and copilot's seats shall be interchangeable between airplanes and stations. The seat backs, cushions and arm rests shall be deeply upholstered and covered with a material as specified by the Interior Finish Specification. The pilot's, copilot's and flight engineer's seats shall have provisions only for headrest. Seat tracks and/or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks and rollers. Seat tracks shall have a maximum practicable tread to minimize lateral motion.

28 \*Installation of pilot's, copilot's and flight engineer's seat shall be fully interchangeable with seats presently installed in Ships 1 through 13. Seat design will incorporate all of the production changes in effect as of 1 September 1961.

\*Effective Ships 14 and on.



3.19 FURNISHINGS AND EQUIPMENT:

3.19.1 ACCOMMODATIONS FOR PERSONNEL:

38 3.19.1.1 INTERIOR: The interior shall include furnishings and equipment for 84 passengers, including 12 club area passengers, plus crew accommodations. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full coach interior as shown on Figure 1-3, and as further described herein.

All of the configurations shall include standard cabin windows at each seat row.

The interior design details, including furnishings, seats, finish specifications and color and trim, shall be subject to Buyer approval and mockup.

3.19.1.1.1 SEATS: All seats shall be equipped with vinyl-foam or equivalent cushions and shall be designed, wherever practicable, in accordance with Guggenheim Foundation and NACA Crash Research. Seat attaching fittings and seat carry-through structure shall be of ductile material so that shock loads, within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in slip cover form.

3.19.1.1.2 PILOT'S COPILOT'S AND FLIGHT ENGINEER'S SEATS: Seats shall be provided for the pilot, copilot and flight engineer, which shall have a minimum adjustment of five inches vertically, and seven inches fore and aft. The seats shall be removable and the pilot's and copilot's seats shall be interchangeable between airplanes and stations. The seat backs, cushions and arm rests shall be deeply upholstered and covered with a material as specified by the Interior Finish Specification. The pilot's, copilot's and flight engineer's seats shall have provisions only for headrest. Seat tracks and/or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks and rollers. Seat tracks shall have a maximum practicable tread to minimize lateral motion.



3.19 FURNISHINGS AND EQUIPMENT:

3.19.1 ACCOMMODATIONS FOR PERSONNEL:

3.19.1.1 INTERIOR: The interior shall include furnishings and equipment for 80 passengers plus a four place lounge and crew accommodations as shown on Figure 1-2. In addition the interior shall be designed to permit quick conversion to either a mixed class configuration or a full coach interior as shown on Figure 1-3, and as further described herein.

(3.19-D1)

All of the configurations shall include standard cabin windows at each seat row.

The interior design details, including furnishings, seats, finish specifications and color and trim, shall be subject to Buyer approval and mockup.

3.19.1.1.1

(3.19-D2)

SEATS: All seats shall be equipped with vinyl-foam or equivalent cushions and shall be designed, wherever practicable, in accordance with Guggenheim Foundation and NACA Crash Research. Seat attaching fittings and seat carry-through structure shall be of ductile material so that shock loads, within design limits, shall not dislodge seats. Wherever fabrics are used for seat upholstery, they shall be applied in slip cover form.

(3.19-10)

3.19.1.1.2

PILOT'S COPILOT'S AND FLIGHT ENGINEER'S SEATS: Seats shall be provided for the pilot, copilot and flight engineer, which shall have a minimum adjustment of 5 inches vertically, and 7 inches fore and aft. The seats shall be removable and the pilot's and copilot's seats shall be interchangeable between airplanes and stations. The seat backs, cushions and arm rests shall be deeply upholstered and covered with a material as specified by the Interior Finish Specification. The pilot's, copilot's and flight engineer's seats shall have provisions only for headrest. Seat tracks and/or rollers shall be designed to provide maintenance adjustment to minimize clearance between tracks and rollers. Seat tracks shall have a maximum practicable tread to minimize lateral motion.



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

227 3.19.1.1.3 OBSERVER'S SEAT: An upholstered auxiliary seat with backrest and arms, shall be installed aft of the pilot for use of an observer.

21A 3.19.1.1.3.1 FIFTH COCKPIT SEAT (Provisions only): Structural provisions for a fifth seat shall be made aft of the observer.

29 3.19.1.1.4 CABIN ATTENDANTS' SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

138 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:

- a. Left hand double seat facing aft.
- b. Right hand double seat facing aft.
- c. Right hand double seat facing forward.
- d. Left hand quadruple seat assembly.
- e. Right hand double seat facing inboard.

99A 227 3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tubular foot rest. The following shall be provided: Wide outside arm and hydraulic recline locks.

28 \*The integral folding food trays will incorporate the latest improved production latches. The first production models of the club area and passenger seat plug-in food trays will be submitted for Buyer approval.

\*Effective Ships 14 and on.

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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock without additional manual operation, and fold the seat-back forward to its normal upright position. This pressure on the seat-back shall not exceed 25 pounds. The seat-back shall fold further forward to approximately 30 degrees forward of the normal upright position (as defined below) without removal of the arm rests, by applying a load of not less than 30 pounds pressure or more than 35 pounds pressure on the aft side of the seat-back. Seat-back positions shall be as follows:

Normal upright: 15 degrees aft of vertical

Recline: 38 degrees aft of vertical

3.19.1.1.6.2 PASSENGER SEAT TABLES (Effective Ships 14 and on): Plug-in and integral folding food tables shall be prototyped and submitted for Buyer approval.

3.19.1.1.7 SAFETY BELTS (Effective Ships 1 through 13): Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.

3.19.1.1.7 SAFETY BELTS (Effective Ships 14 and on): Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer. All passenger and cabin attendants safety belt tips shall be chrome finished steel.

3.19.1.1.7.1 CRASH ENERGY ABSORBER: All cabin passenger seats shall be equipped with crash energy absorbers installed at each safety belt attachment point.

3.19.1.1.8 CONVERTIBILITY: The standard 84-passenger configuration (including 12 club area passengers) shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat compartments shown in Figure 1-3 as dividers. These coat compartments shall



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 7 3.19.1.1.3 OBSERVER'S SEAT: An upholstered auxiliary seat with back-rest and arms, shall be installed aft of the pilot for use of an observer.
- A 3.19.1.1.3.1 FIFTH COCKPIT SEAT (Provisions only): Structural provisions for a fifth seat shall be made aft of the observer.
- 9 3.19.1.1.4 CABIN ATTENDANTS' SEATS: Three upholstered seats and back-rests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulk-head and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).
- 8 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:
- a. Left hand double seat facing aft.
  - b. Right hand double seat facing aft.
  - c. Right hand double seat facing forward.
  - d. Left hand quadruple seat assembly.
  - e. Right hand double seat facing inboard.
- 1A 3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be 7 as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tubular foot rest. The following shall be provided: Wide outside arms and hydraulic recline locks.

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### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock without additional manual operation, and fold the seat-back forward to its normal upright position. This pressure on the seat-back shall not exceed 25 pounds. The seat-back shall fold further forward to approximately 30 degrees forward of the normal upright position (as defined below) without removal of the arm rests, by applying a load of not less than 30 pounds pressure or more than 35 pounds pressure on the aft side of the seat-back. Seat-back positions shall be as follows:

Normal Upright: 15 degrees aft of vertical

Recline: 38 degrees aft of vertical



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 OBSERVER'S SEAT: An upholstered auxiliary seat with back-rest and arms, shall be installed aft of the pilot for use of an observer.

3.19.1.1.4 CABIN ATTENDANT'S SEATS: Three upholstered seats and back-rests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulk-head and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:

- a. Left hand double-seat facing aft
- b. Right hand double-seat facing aft
- c. Right hand double-seat facing forward
- d. Left hand quadruple-seat assembly
- e. Right hand double-seat facing inboard

3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and 1-3. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area seats) literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tubular foot rest. The following shall be provided: wide outside arms and hydraulic recline locks.

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## STATISTICS AND EQUIPMENT (Cont.)

3.10.1.1.1.1 SEAT BACK MOVEMENT: The reclining seat shall be designed so that pressure applied to the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its initial vertical position. This pressure on the seat-back shall be a maximum of 50 pounds. The seat-back shall be permitted to fold further forward to approximately a horizontal position of the seat cushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-back shall be permitted to fold forward without removal of supports. Seat-back positions shall be as follows:

Normal Vertical

12° aft of vertical

Recline

30° aft of vertical



3.19 FURNISHINGS AND EQUIPMENT (Cont.)

3.19.1.1.3 OBSERVER'S SEAT: A folding, auxiliary seat with upholstered seat, backrest, and arms, shall be provided aft of the pilot for use of an observer.

129 3.19.1.1.4 CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand seat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand seat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

138 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:

- a. Left hand double-seat facing aft
- b. Right hand double-seat facing aft
- c. Right hand double-seat facing forward
- d. Left hand quadruple-seat assembly
- e. Right hand double-seat facing inboard

99A 3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and 1 of Appendix II. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclining backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package storage. Integral folding food tray, tables located in each seat back (except for club area and forward main cabin seats), literature pockets, and storage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges. Hole provisions on seat base shall be made for the future incorporation of optional two-position tabular foot rest. The following shall be provided: wide outside arms and hydraulic recline locks:



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 OBSERVER'S SEAT: A folding auxiliary seat with upholstered seat, backrest and arms, shall be provided aft of the pilot for use of an observer.

3.19.1.1.4 CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

3.19.1.1.5 LOUNGE SEATS: A four-place lounge shall be provided with facing seats located aft of the forward main entrance door. The seats shall have fixed backs and shall be deeply upholstered and luxurious in appearance. The surrounding walls, ceilings and partitions shall reflect an integrated, pleasing appearance.

3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and I of Appendix II. Except for the lounge type seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of lounge seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for lounge and forward main cabin seats), literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges.

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its normal vertical position. This pressure on the seat-back shall not exceed 30 pounds. The seat-back shall be permitted to fold further forward to approximately a horizontal position on the seat cushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of arm-rests. Seat-back positions shall be as follows:

Normal Vertical  
Recline

12° aft of vertical  
38° aft of vertical



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 (3.19-13) OBSERVER'S SEAT: A folding auxiliary seat with upholstered seat, backrest and arms, shall be provided aft of the pilot for use of an observer.

3.19.1.1.4 (3.19-D3) CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one in the forward entrance area and two in the aft vestibule area. The seats shall be of the folding type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

3.19.1.1.5 LOUNGE SEATS: A four-place lounge shall be provided with facing seats located aft of the forward main entrance door. The seats shall have fixed backs and shall be deeply upholstered and luxurious in appearance. The surrounding walls, ceilings and partitions shall reflect an integrated, pleasing appearance.

3.19.1.1.6 (3.19-D4)  
(3.19-68) PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and I of Appendix II. Except for the lounge type seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of lounge seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for lounge and forward main cabin seats), literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges.

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its normal vertical position. This pressure on the seat-back shall not exceed 30 pounds. The seat-back shall be permitted to fold further forward to approximately a horizontal position on the seat cushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of arm-rests. Seat-back positions shall be as follows:

(3.19-17)	Normal Vertical	12° aft of vertical
	Recline	38° aft of vertical

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### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

be designed to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows six and 15 inclusive, excluding emergency hatch areas, in the main cabin section. Each of the 22 seat rows shall incorporate standard cabin windows, and each row aft of the club area shall have reading lights and individual air outlets for five-abreast seating as shown in the coach configuration of standard seats or coach seats. Provisions shall be made for installation of a left and right hand hat rack in the club area for use with four and five-abreast seating arrangements.

3.19.1.1.9 GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Non-splintering materials shall be used.

### 3.19.2 MISCELLANEOUS EQUIPMENT:

3.19.2.1 BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3.19-5, 3.19-6 and 3.19-7. The units shall be identified as No. 1, No. 2, No. 3 and No. 4; units 2 and 3 shall be alike for interchangeability. No. 1 unit shall accommodate nine tray carriers, No. 4 unit shall be located forward of No. 3 unit on RH side forward of rear service door facing aft, and shall accommodate ten tray carriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead-type doors shall be installed over ovens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. 4 unit as follows: (a) one pair for each lower two levels on aft side, (b) a single door for the three inboard tray carriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from loaded ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary serving counters. All loaded ovens and tray carriers



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

/61 3.19.2.7.12 CHART TABLES: A map table shall be provided on both the pilot's and copilot's consoles. The map tables shall be fabricated of suitable lightweight material. When in use, the tables shall cover their respective console areas over the flight kit stowage area. Stowage provisions shall be made.

3.19.2.7.13 MISCELLANEOUS STOWAGE: A miscellaneous stowage compartment shall be provided on the aft face of the forward right hand passenger bulkhead. The compartment shall be equipped with a hinged door on the inboard side and shall incorporate a shelf approximately 18 inches above the floor of the bin.

3.19.2.7.14 MAP CASE: A sectional map case shall be incorporated into a readily removable guard over the oxygen bottles. The oxygen gages shall remain visible.

/61 3.19.2.7.15 CREW IDENTIFICATION NAMEPLATE HOLDER: A customer furnished crew identification nameplate holder shall be provided on the aft face of the forward left hand coat compartment at eye level.

/61 3.19.2.7.16 TIME TABLE STOWAGE: Stowage space for airline time tables shall be provided on the inboard side of the bulkhead stowage bin located on the forward right hand side of the passenger compartment.

3.19.3. FURNISHINGS:

3.19.3.1 GENERAL ARRANGEMENT: The standard fuselage interior general arrangement is shown in the illustration herein. Interior trim fabrics, upholstery, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification. (Reference 3.2.4.) Weights for these materials are shown in Appendix I-C.

3.19.3.1.1 PASSENGER COMPARTMENT: The main passenger compartment shall be a minimum of 24 inches wide between arm rests in the standard configuration. The minimum clear ceiling height in the main cabin shall be approximately 85 inches at the airplane centerline except at the stowage box and entry areas.

3.19.3.2 FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Floor covering shall be installed to restrict creeping and curling. The floor covering in the passenger area shall be retained by methods which permit quick and easy replacement of covering and which do not require tools. Mechanical fasteners and metal hold-down strips and moldings shall be avoided. Consideration shall be given to the static electricity characteristics of the carpet installed. Any difference in the cost and weight of the carpet installed which results from a choice of carpet other than that specified in Appendix I-C shall be the subject of further negotiation. The floor covering in each buffet and entrance area shall be readily removable, pile type carpeting.

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### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.1.1.7 SAFETY BELTS: Buyer approved commercial type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.
- 3.19.1.1.8 CONVERTIBILITY: The standard 80 passenger configuration shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat rooms shown in Figure 1-3 as dividers. These coat compartments shall be designed so as to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows five and fourteen inclusive excluding emergency hatch areas in the main cabin section. Each of the twenty-one seat rows shall incorporate standard cabin windows, reading lights, and individual air outlets for five abreast seating as shown in the coach configuration in Figure 1-3 and shall likewise permit the installation of standard seats or coach seats without restriction or employment of non-standard seats.
- 3.19.1.1.9 GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat-backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Nonsplintering materials shall be used.
- 3.19.2 MISCELLANEOUS EQUIPMENT:
- 3.19.2.1 BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3-19-5, 3.19-6 and 3.19-7. The units shall be identified as No. 1, No. 2, No. 3 and No. 4; units 2 and 3 shall be alike for interchangeability. No. 1 unit shall accommodate nine tray carriers. No. 4 unit shall be located forward of No. 3 unit on RH side forward of rear service door facing aft, and shall accommodate ten tray carriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead type doors shall be installed over ovens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. 4 unit



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.7 SAFETY BELTS: Buyer approved commercial-type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.

93 3.19.1.1.7.1 CRASH ENERGY ABSORBER: All cabin passenger seats shall be equipped with crash energy absorbers installed at each safety belt attachment point.

8 3.19.1.1.8 CONVERTIBILITY: The standard 84-passenger configuration (including 18 club area passengers) shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat compartments shown in Figure 1-3 as dividers. These coat compartments shall be designed to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows six and 15 inclusive, excluding emergency hatch areas, in the main cabin section. Each of the 22 seat rows shall incorporate standard cabin windows, and each row aft of the club area shall have reading lights and individual air outlets for five-abreast seating as shown in the coach configuration in Figure 1-3. All rows shall permit the installation of standard seats or coach seats. Provisions shall be made for installation of a left and right hand hatrack in the club area for use with four and five-abreast seating arrangements.

3.19.1.1.9 GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc., shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Nonsplintering materials shall be used.

3.19.2 MISCELLANEOUS EQUIPMENT:

35B 3.19.2.1 BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figures 1-2 and 1-3. Each of the buffets shall consist of two units as shown on Figures 3.19-5, 3.19-6 and 3.19-7. The units shall be identified as No. 1, No. 2, No. 3 and No. 4; units 2 and 3 shall be alike for interchangeability. No. 1 unit shall accommodate nine tray carriers, No. 4 unit shall be located forward of No. 3 unit on RH side forward of rear service door facing aft, and shall accommodate ten tray carriers. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. Solid overhead-type doors shall be installed over cvens and tray carriers of units 1, 2 and 3. Hinged side stowing doors shall be provided in No. 4 unit (cont)



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.7 SAFETY BELTS: Buyer approved commercial type safety belts shall be provided on all seat accommodations. In addition, each crew member's (including observer's) and cabin attendant seats shall be equipped with shoulder harnesses. Inertia reels for the shoulder harness shall be provided for the pilot, copilot and flight engineer.

3.19.1.1.8 CONVERTIBILITY: The standard 80 passenger configuration shall include full provisions to permit quick conversion to a full range of mixed class interiors utilizing the two coat rooms shown in Figure 1-3 as dividers. These coat compartments shall be designed so as to utilize the standard floor seat attach points and thus may be placed in any of the rows between rows five and fourteen inclusive excluding emergency hatch areas in the main cabin section. Each of the twenty-one seat rows shall incorporate standard cabin windows, reading lights, and individual air outlets for five abreast seating as shown in the coach configuration in Figure 1-3 and shall likewise permit the installation of standard seats or coach seats without restriction or employment of nonstandard seats.

(3.19-D5)

3.19.1.1.9 GENERAL: Special attention in detail design shall be accorded crash protection of occupants. All protuberances (such as seat-backs, control handles, etc.) which could be contacted by an occupant normally restrained in his seat shall be padded with "Ensolite" or equivalent energy absorbing material. Reading lights, call buttons, assist handles, etc. shall be mounted flush or so located as not to be passenger or crew hazards. Use of sharp corners in buffets, tables, lavatories, etc., shall be avoided. Non-splintering materials shall be used.

3.19.2 MISCELLANEOUS EQUIPMENT:

3.19.2.1 BUFFET: Two buffets shall be provided, one located forward and one aft as shown on Figure 1-2 and 1-3. Each of the buffets shall consist of a fore and aft section as shown on Figures 3.19-5/8. Similar sections of the fore and aft buffets shall be made alike for interchangeability. The buffet installation shall be designed to the loads as specified in Paragraph 3.4.4. These loads shall also apply to buffet insert retention. The buffet insert sizes shall be as described by Appendix II of this specification.

(3.19-D6)



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1 shall be retained in position by 12g ultimate load self-locking latches. Counter tops, side and back splash to be (Cont) one piece replaceable "Formica" or equivalent.

3.19.2.1.1 REMOVABLE BUFFET (Effective Ships 1 through 13): All buffet units shall be readily removable for ease of maintenance and servicing.

3.19.2.1.1 REMOVABLE BUFFET (Effective Ships 14 and on): All buffet units shall be readily removable for ease of maintenance and servicing. Nutplates shall be installed on the buffet-fuselage attach forks to facilitate buffet installation, and removal. Floating type nutplates shall be installed on the floor structure at buffet attach points to ease hole alignment and buffet installation.

3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.19-5, 3.19-6, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

NO. OF ITEMS IN BUFFET UNIT  
No. 1 No. 2 No. 3 No. 4

**Tray Carrier (6-meal capacity)	9	0	0	10
**Food Warming Oven (12-meal capacity)	0	6	6	0
*Non-Inflatable Escape Chute Stowage	0	1	1	0
Coffee Maker	0	1	1	0
Counter Top (Including Liquid Drain)	0	1	1	0
*2-Gallon Liquid Container	1	2	2	2
Filters (In addition to Coffee Maker filter)	0	1	1	0
*Waste Container (Wet and Dry)	0	1	1	0
Cold Water Outlet	0	1	1	0
Water Cooler (1 Qt capacity)	0	1	1	0
Switch Panel	0	1	1	0
Integral Counter Light	0	1	1	0
Hot Cups	0	1	1	0
Hinged Serving Counters	0	2	2	0
Miscellaneous Stowage	As available prov			

3.19.2.1.2 Refer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of aircraft. All other items to be Contractor furnished Contractor installed equipment.

- \*Incorporates 12g Load Carrying Doors
- \*\*Incorporates 3g Load Carrying Doors

### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1 (Cont) as follows: (a) one pair for each lower two levels on aft side, (b) a single door for the three inboard tray carriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from loaded ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary serving counters. All loaded ovens and tray carriers shall be retained in position by 12g ultimate load self-locking latches. Counter tops, side and back splash to be one piece replaceable "Formica" or equivalent.

3.19.2.1.1 REMOVABLE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.

3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.19-5, 3.19-6, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

#### NO. OF ITEMS IN BUFFET UNIT

	No. 1	No. 2	No. 3	No. 4
--	-------	-------	-------	-------

**Tray Carrier (6-meal capacity)	9	0	0	10
**Food Warming Oven (12-meal capacity)	0	6	6	0
*Non-Inflatable Escape Chute				
Stowage	0	1	1	0
Coffee Maker	0	1	1	0
Counter Top (Including Liquid Drain)	0	1	1	0
*2-Gallon Liquid Container	1	2	2	2
Filters (In addition to Coffee Maker filter)	0	1	1	0
*Waste Container (Wet and Dry)	0	1	1	0
Cold Water Outlet	0	1	1	0
Water Cooler (1 Qt capacity)	0	1	1	0
Switch Panel	0	1	1	0
Integral Counter Light	0	1	1	0
Hot Cups	0	1	1	0
Hinged Serving Counters	0	2	2	0
Miscellaneous Stowage	As available			

\*Incorporates 12g Load Carrying Doors  
\*\*Incorporates 3g Load Carrying Doors

22A  
35B  
169



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1.2 (Cont) Refer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of aircraft. All other items to be Contractor furnished Contractor installed equipment.

3.19.2.1.3 CONTROL PANEL: A cabin attendant's panel shall be provided over each service door on right hand side of cabin (one forward and one aft). These panels shall contain controls for the following:

Entrance, passenger and buffet lighting  
Passenger and crew call system

A separate control panel for the service interphone and public address systems, and a handset shall be provided, one each at forward and aft stewardess stations.

3.19.2.1.4 WATER SYSTEM: A pressurized potable water system shall be provided to supply the lavatory wash basins and buffets. Filters will be provided in buffets which have coffee makers or drinking water outlets. The system shall provide for draining on the ground. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoir. Means for filling on the ground at a rate of at least 10 gpm shall be provided. An overflow pipe from the tank shall visually indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous duty operation.

The supply tank shall be designed to ensure that the last remaining ten gallons in the tank will supply only the buffets.

Suitable controls shall be located on the Flight Engineer's panel for operation of the water system. These controls shall consist of the following:

1. Low pressure warning light
2. Pump switch



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### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

#### 3.19.2.1 (Cont)

as follows: (a) one pair for each lower two levels on aft side, (b) a single door for each of the three inboard tray carriers and (c) a single door for the upper aft tray carrier. All doors shall be designed to utilize easily replaceable commercial material and to sustain a 3g ultimate load from loaded ovens or tray carriers. The overhead doors over the ovens and tray carriers shall be designed to serve as auxiliary serving counters. All loaded ovens and tray carriers shall be retained in position by 12g ultimate load self-locking latches. Counter tops, side and back splash to be one piece replaceable "Formica" or equivalent.

#### 3.19.2.1.1

REMOVABLE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.

#### 3.19.2.1.2

BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet as required. The equipment and arrangement shall be shown in Figures 3.19-5, 3.19-6, 3.19-6A, and 3.19-7. Final design shall be subject to Buyer approval.

#### NO. OF ITEMS IN BUFFET UNIT

	No. 1	No. 2	No. 3	No. 4
--	-------	-------	-------	-------

**Tray Carrier (6-meal capacity)	9	0	0	10
**Food Warming Oven (12-meal capacity)	0	5	5	0
*Non-Inflatable Escape Chute Stowage	0	1	1	0
Coffee Maker	0	1	1	0
Counter Top (Including Liquid Drain)	0	1	1	0
*2-Gallon Liquid Container	1	2	2	2
Filters (In addition to coffee maker filter)	0	1	1	0
*Waste Container (Wet and Dry)	0	1	1	0
Cold Water Outlet	0	1	1	0
Water Cooler (1-Qt Capacity)	0	1	1	0
Switch Panel	0	1	1	0
Integral Counter Light	0	1	1	0
Hot Cups	0	1	1	0
*Drawers (4)	0	1	1	0
Hinged Serving Counters	0	2	2 prov	0
Miscellaneous Stowage	As available			

\*Incorporates 12g Load Carrying Doors  
\*\*Incorporates 3g Load Carrying Doors



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1.2 (Cont) Refer to APPENDIX I-B for description of equipment to be furnished and installed by Customer after delivery of aircraft. All other items to be Contractor furnished Contractor installed equipment.

3.19.2.1.3 CONTROL PANEL: A cabin attendant's control panel shall be provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting  
Passenger and crew call system  
Service interphone  
Public address system

2A 3.19.2.1.4 WATER SYSTEM: A pressurized potable water system shall be provided to supply the lavatory wash basins and buffets. Filters will be provided in buffets which have coffee makers or drinking water outlets. The system shall provide for draining on the ground. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoir. Means for filling on the ground at a rate of at least 10 gpm shall be provided. An overflow pipe from the tank shall visually indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous duty operation.

The supply tank shall be designed to ensure that the last remaining ten gallons in the tank will supply only the buffets.

Suitable controls shall be located on the Flight Engineer's panel for operation of the water system. These controls shall consist of the following:

1. Low pressure warning light
2. Pump switch



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1.1 REMOVABLE BUFFET: All buffet units shall be readily removable for ease of maintenance and servicing.

2A 3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets shall be such that identical equipment is provided at each buffet. The equipment and arrangement shall be shown in Figures 19-5/8. Final design shall be subject to Buyer approval.

Food warming ovens  
Hot and cold beverage containers  
Passenger drinking water containers  
Refuse container  
Instantaneous coffee maker  
Tray carriers  
Cabin attendant's assist handles  
Miscellaneous drawers and stowage compartments  
Water filters

3.19.2.1.3 CONTROL PANEL: A cabin attendant's control panel shall be provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting  
Passenger and crew call system  
Service interphone  
Public address system

2A 3.19.2.1.4 WATER SYSTEM: A pressurized potable water system shall be provided to supply the lavatory wash basins and buffets. Filters will be provided in buffets which have coffee makers or drinking water outlets. The system shall provide for draining on the ground. The tank capacity shall be 50 gallons of water with an adequate air space to act as a pressure reservoir. Means for filling on the ground at a rate of at least 10 gpm shall be provided. An overflow pipe from the tank shall visually indicate at the ground service connection when the tank is full. The system shall be located and designed to prevent freezing in flight. An air pump shall be provided. The pump assembly shall be rated for continuous duty operation.

The supply tank shall be designed to ensure that the last remaining 10 gallons in the tank will supply only the buffets.

Suitable controls shall be located on the flight Engineer's panel for operation of the water system. These controls shall consist of the following:

1. Low pressure warning light
2. Pump switch



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.1.1 REMOVABLE BUFFET: All buffet units shall be readily re-  
(3.19-D7) movable for ease of maintenance and servicing.

3.19.2.1.2 BUFFET EQUIPMENT: The design of the fore and aft buffets  
(3.19-D8) shall be such that identical equipment is provided at each buffet. The equipment and arrangement shall be shown in Figures 19-5/8. Final design shall be subject to Buyer approval.

(3.19-D9) Food warming ovens  
Hot and cold beverage containers  
Passenger drinking water containers  
Refuse container  
Instantaneous coffee maker  
Tray carriers  
Cabin attendants' assist handles  
Miscellaneous drawers and stowage compartments

3.19.2.1.3 CONTROL PANEL: A cabin attendant's control panel shall be  
(3.19-20) provided at each cabin attendant's seat location (one forward and one rear). These panels shall each contain controls for the following:

Entrance, passenger and buffet lighting  
Passenger and crew call system  
Service interphone  
Public address system

3.19.2.1.4 WATER SYSTEM: Two potable water systems shall be provided  
(3.19-D10) to supply the lavatory wash basins and the two buffets with one system forward and one aft. A total of 50 gallons shall be provided, 20 forward and 30 gallons aft. Each tank system shall be of the gravity type and shall include a vent, overflow line and means of filling from the ground at a rate of at least 10 gpm. All water lines shall be so installed as to preclude traps and shall include drain valves for completely draining the system. Fill and drain valves shall be located inside of the heated area of the fuselage. All system parts shall be resistant to corrosion and suitable for use with water having 20 ppm of chlorine. Consideration shall be given to using flexible water lines to reduce line-freezing, and to making fore and aft water tanks identical.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.2 LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing-type toilet with standard airline connections (four-inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with a 3/4-inch diameter drain, manually-operated drain stopper with easily replaceable seal, one each hot water and cold water household-type spring-loaded faucets so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A two-quart capacity hot water tank, equipped with electrical heating elements, shall be installed, one in the forward lavatory and one aft to supply hot water to each lavatory wash basin. A 40-gallon capacity waste tank shall be provided for the aft lavatories and a 30-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim when the door is open.

3.19.2.2.1 DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide-bolt type which may be unlocked from the outside in an emergency without the use of tools.

3.19.2.2.2 OCCUPIED - VACANT SIGNS: One bilingual (English and Spanish) "Occupied - Vacant" sign shall be provided for each lavatory. These signs shall be appropriately illuminated by lavatory door slide bolt action. Indication of lavatory occupancy shall also be provided by the slide bolt over each door knob.

3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

Three shatterproof mirrors (one mirror in each lavatory)  
One coat hook (folding-type on lavatory door)  
Two assist handles (one at toilet and one at wash basin)  
One call button (cabin attendant identified)  
One shaver outlet (24-volt dc)  
One shaver outlet (115-volt dc)  
One soap dispenser (cake)  
Two towel dispensers (one for linen and one for paper)  
Two towel disposals (one for linen and one for paper)  
One toilet paper dispenser (roll)  
One cleansing tissue dispenser  
One sanitary napkin dispenser (envelope-type)  
Air sickness bag stowage  
Miscellaneous stowage cabinets  
One individual air outlet



3.19 FURNISHINGS AND EQUIPMENT (Cont)

coat compartment opening shall be curtained. Curtain materials shall be as specified in the Finish Specification.

3.19.3.6 HAT RACKS: Overhead hat racks shall be installed, extending the full length of the main passenger compartment in the Standard Version, including the area over the three forward left hand double seats. Passenger hat rack accommodations shall be adjustable fore and aft.

3.19.4 FIRE EXTINGUISHING EQUIPMENT:

3.19.4.1 NACELLE FIRE EXTINGUISHING SYSTEM: Two "HRD" type, two shot (Main and Reserve) fire extinguishing systems shall be installed to extinguish fires in pod and pylon areas, both in flight and on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible. The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during preflight inspection. An overboard thermal discharge indicator (red disc) shall be so located so as to be visible during a walk-around ground inspection.

3.19.4.1.1 CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective pods and pylons. A switch



3.19 FURNISHINGS AND EQUIPMENT (Cont)

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115  
3.19.2.2 LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylyn flushing outlets and one inch Roylyn service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with a 3/4 inch diameter drain, manually-operated drain stopper with easily replaceable seal, one each hot water and cold water household type spring-loaded faucets so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A 2-quart capacity hot water tank, equipped with electrical heating elements, shall be installed, one in the forward lavatory and one aft to supply hot water to each lavatory wash basin. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim when the door is open.

3.19.2.2.1 DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of tools.

3.19.2.2.2 OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.

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3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

One shatterproof mirror (over wash basin)  
One coat hook (folding-type on lavatory door)  
Two assist handles (one at toilet, and one at wash basin)  
One call button (cabin attendant identified)  
One shaver outlet (24 volt dc)  
One shaver outlet (115 volt dc)  
One soap dispenser (cake)  
One towel dispenser unit (consisting of three dispensers, two universal for either linen or paper, and one for paper only)  
Two towel disposals (one for linen and one for paper)  
One toilet paper dispenser (roll)  
One cleansing tissue dispenser  
One sanitary napkin dispenser (envelope type)  
Air sickness bag stowage  
Miscellaneous stowage cabinets  
One individual air outlet



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### 3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.2 LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylong flushing outlets and one inch Roylong service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with 3/4 inch diameter drain containing a manually-operated drain stopper with easily replaceable seat and household type spring loaded faucet, so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. The lavatory lights shall dim when the door is open.

3.19.2.2.1 DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of tools.

3.19.2.2.2 OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.

3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

- One shatterproof mirror (over wash basin)
- One coat hook (folding-type on lavatory door)
- Two assist handles (one at toilet and one at wash basin)
- One call button (cabin attendant identified)
- One shaver outlet (24 volt dc)
- One shaver outlet (115 volt dc)
- One soap dispenser (cake)
- Two towel dispensers (one for linen and one for paper)
- Two towel disposals (one for linen and one for paper)
- One toilet paper dispenser (roll)
- One cleansing tissue dispenser
- One sanitary napkin dispenser (envelope type)
- Air sickness bag stowage
- Miscellaneous stowage cabinets
- One individual air outlet



3.19 FURNISHINGS AND EQUIPMENT (Cont)

53 3.19.2.2 LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin with 3/4 inch diameter drain containing a manually-operated drain stopper with easily replaceable seal and household type spring loaded faucet, so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. A pressure box and access door shall be provided in the fuselage under the aft lavatories to the right of airplane centerline. Both aft lavatory drains shall be connected through a Y-fitting to a single connection to the pressure box for ground lavatory flushing. A flush line shall be provided to accomplish the ground flushing operation. Pressure caps shall be provided for the drain and flush lines. ~~The lavatory lights shall dim for the drain and flush lines.~~ The lavatory lights shall dim when the door is open.

3.19.2.2.1 DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of tools.

3.19.2.2.2 OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.

23 3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:

- One shatterproof mirror (over wash basin)
- One coat hook (folding-type on lavatory door)
- Two assist handles (one at toilet and one at wash basin)
- One call button (cabin attendant identified)
- One shaver outlet (24 volt DC)
- One shaver outlet (115 volt DC)
- One soap dispenser (cake)
- Two towel dispensers (one for linen and one for paper)
- Two towel disposals (one for linen and one for paper)
- One toilet paper dispenser (roll)
- One cleansing tissue dispenser
- One sanitary napkin dispenser (envelope type)
- Air Sickness bag stowage
- Miscellaneous stowage cabinets
- One individual air outlet



3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.2.2 (3.19-22) LAVATORIES: Three lavatory compartments shall be provided; one located forward of the passenger compartment and two aft. Each lavatory shall be equipped with a nonflushing type toilet with standard airline connections (four inch Roylon flushing outlets and one inch Roylon service charging inlets) for ground servicing without entering the lavatory compartments. A wash basin, with 3/4 inch diameter drain containing a manually-operated drain stopper with easily replaceable seal and household type spring loaded faucet, so designed that passengers may wash their hands with running water, shall be provided in each lavatory. A forty-gallon capacity waste tank shall be provided for the aft lavatories and a thirty-gallon waste tank for the forward lavatory. The lavatory lights shall dim when the door is open.
- 3.19.2.2.1 (3.19-D11) (3.19-25) DOOR LOCKS: Each lavatory door shall be equipped with a handle and lock. The lock shall be of the keyless slide bolt type which may be unlocked from the outside in an emergency without the use of tools.
- 3.19.2.2.2 (3.19-26) OCCUPIED SIGNS: One lavatory "Occupied" sign shall be provided for each lavatory. The lavatory door slide bolt shall cause the "Occupied" sign to illuminate. Visual indication of occupancy will be provided by means of the slide bolt above each door knob in the form of a sign containing one inch block letters.
- 3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT: The following equipment shall be installed in each lavatory:
- One shatterproof mirror (over wash basin)
  - One coat hook (folding-type on lavatory door)
  - Two assist handles (one at toilet and one at wash basin)
  - One call button (cabin attendant identified)
  - One shaver outlet (24 volt DC)
  - One shaver outlet (115 volt AC)
  - One soap dispenser (cake)
  - ✓ Two towel dispensers (one for linen and one for paper)
  - Two towel disposals (one for linen and one for paper)
  - One toilet paper dispenser (roll)
  - One cleansing tissue dispenser
  - One sanitary napkin dispenser (envelope type)
  - Air sickness bag stowage
  - Miscellaneous stowage cabinets
  - One individual air outlet
- 3.19.2.2.4 (3.19-D12) WATER TANK TUBING: Deleted (Per RFC 319-28)

ANALYSIS  
PREPARED BY  
CHECKED BY  
REVISED BY

# CONVAIR

SAN DIEGO

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## 3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.3 COAT STOWAGE: Passenger coat stowage compartments shall be provided as shown on interior arrangement drawings. Design objective shall be to obtain one inch of coat space for each passenger and cabin attendant.

3.19.2.4 LUGGAGE RACKS: Deleted.

3.19.2.5 LUGGAGE AND CARGO COMPARTMENTS: Two combination cargo and luggage compartments shall be provided in the under-floor area of the fuselage; one forward and one aft of the wing. Flooring and forward bulkhead in each cargo compartment shall be .045 aluminum alloy or equivalent. Skid strips, continuous or smoothly spliced, shall be installed. The ceiling and sidewalls shall be lined with removable panels. Removable access panels shall be provided over all equipment located behind the cargo lining. All joints and openings shall be sealed to meet the CAR requirements for Class "D" compartments. Means shall be provided for equalizing pressure between cargo compartments and adjacent pressurized compartments.

3.19.2.5.1 WEB GATES: A web gate shall be provided at each cargo door to keep the area clear.

3.19.2.5.2 TIE DOWN RINGS: The flooring in both the forward and aft cargo compartments shall be reinforced as required and shall be provided with 12 each flush type tie-down rings for securing heavy or uncrated cargo.

3.19.2.6 WINDSHIELD WASHERS AND WIPERS: (See 3.7.1.3.2.2.)

3.19.2.7 PYROTECHNICS:

3.19.2.7.1 FLARE DISPENSERS: Two electrically-operated flare dispensers shall be installed to eject flares vertically downward from the aft lower fuselage area. A means for inspecting the latch after flare loading shall be provided. The release of flares shall be controlled from the flight compartment by safeguarded electrical switches wired so as to prevent inadvertent release of the flares.



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.3 COAT STOWAGE: Passenger coat stowage compartments shall be provided as shown on interior arrangement drawings. Design objective shall be to obtain one inch of coat space for each passenger and cabin attendant.

3.19.2.4 LUGGAGE RACKS: Deleted.

3.19.2.5 LUGGAGE AND CARGO COMPARTMENTS: Two combination cargo and luggage compartments shall be provided in the under-floor area of the fuselage; one forward and one aft of the wing. Flooring and forward bulkhead in each cargo compartment shall be .045 aluminum alloy or equivalent. Skid strips, continuous or smoothly spliced, shall be installed. The ceiling and sidewalls shall be lined with removable panels. Removable access panels shall be provided over all equipment located behind the cargo lining. All joints and openings shall be sealed to meet the CAR requirements for Class "D" compartments. Means shall be provided for equalizing pressure between cargo compartments and adjacent pressurized compartments.

3.19.2.5.1 WEB GATES: A web gate shall be provided at each cargo door to keep the area clear.

3.19.2.6 WINDSHIELD WASHERS AND WIPERS: (See 3.7.1.3.2.2)

3.19.2.7 PYROTECHNICS:

3.19.2.7.1 FLARE DISPENSERS: Two electrically-operated flare dispensers shall be installed to eject flares vertically downward from the aft lower fuselage area. A means for inspecting the latch after flare loading shall be provided. The release of flares shall be controlled from the flight compartment by safeguarded electrical switches wired so as to prevent inadvertent release of the flares.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.1.1.3 OBSERVER'S SEAT: A folding auxiliary seat with upholstered seat, backrest and arms, shall be provided aft of the pilot for use of an observer.

129 3.19.1.1.4 CABIN ATTENDANT'S SEATS: Three upholstered seats and backrests shall be provided for cabin attendants; one single aft facing seat on aft face of forward left hand coat compartment, one aft facing seat on left hand cabin aft bulkhead and one forward facing seat on inboard face of aft left hand coat compartment. The seats shall be of the folding-type and shall be capable of being stowed clear of the aisle when not in use. The seats shall be located in accordance with the interior plans (Figure 1-2).

138 3.19.1.1.5 CLUB AREA SEATS: A 12-place club area shall be provided aft of the forward main entrance door, with seat assemblies arranged as follows:

- a. Left hand double-seat facing aft
- b. Right hand double-seat facing aft
- c. Right hand double-seat facing forward
- d. Left hand quadruple-seat assembly
- e. Right hand double-seat facing inboard

3.19.1.1.6 PASSENGER SEATS: The passenger seat arrangement shall be as shown on Figures 1-2 and I of Appendix II. Except for the club area seats, which shall have fixed backs, all passenger seats shall have reclinable backs. All passenger seats shall be equipped with removable or folding center armrests. Equipment shall not be located or stowed under the passenger seats, however, a minimum of 10 x 15 x 24 inches shall be provided under the seats, exclusive of club area seats, for passenger package stowage. Integral folding food tray tables located in each seat back (except for club area and forward main cabin seats), literature pockets, and stowage space for air sickness bags shall be provided. Seat bottom cushions shall be removable and usable as life preservers. To assist in this regard, a strap shall be sewed on each of two opposite edges.

3.19.1.1.6.1 SEAT BACK MOVEMENT: Each reclining seat shall be designed so that pressure applied on the aft side of the seat-back will override the recline control lock, without additional manual operation, and fold the seat-back forward to its normal vertical position. This pressure on the seat-back shall not exceed 30 pounds. The seat-back shall be permitted to fold further forward to approximately a horizontal position on the seat cushion by applying a load of not less than 50 pounds pressure or more than 60 pounds pressure on the aft side of the seat-back. The seat-backs shall be permitted to fold forward without removal of armrests. Seat-back positions shall be as follows:

Normal Vertical  
Recline

12° aft of vertical  
38° aft of vertical



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.3 COAT STOWAGE: Passenger coat stowage compartments shall be provided as shown on interior arrangement drawings. Design objective shall be to obtain one inch of coat space for each passenger and cabin attendant.  
(3.19-213)  
(3.19-29)

3.19.2.4 LUGGAGE RACKS: Deleted.  
(3.19-30)

3.19.2.5 LUGGAGE AND CARGO COMPARTMENTS: Two combination cargo and luggage compartments shall be provided in the under-floor area of the fuselage; one forward and one aft of the wing. Flooring in the cargo compartment shall be of .051 aluminum alloy or equivalent. Skid strips, continuous or smoothly spliced, shall be installed. The ceiling and sidewalls shall be lined with removable panels. Removable access panels shall be provided over all equipment located behind the cargo lining. All joints and openings shall be sealed to meet the CAR requirements for Class "D" compartments. Means shall be provided for equalizing pressure between cargo compartments and adjacent pressurized compartments.

3.19.2.5.1 WEB GATES: A web gate shall be provided at each cargo door to keep the area clear.

3.19.2.6 WINDSHIELD WASHERS AND WIPERS: (See Par. 3.7.1.3.2.2)

3.19.2.7 PYROTECHNICS:

3.19.2.7.1 FLARE DISPENSERS: Two electrically-operated flare dispensers shall be installed to eject flares vertically downward from the aft lower fuselage area. A means for inspecting the latch after flare loading shall be provided. The release of flares shall be controlled from the flight compartment by safeguarded electrical switches wired so as to prevent inadvertent release of the flares.  
(3.16-20)



ANALYSIS  
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CHECKED BY  
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# CONVAIR

SAN DIEGO

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## 3.19 FURNISHINGS AND EQUIPMENT (Cont)

### 3.19.2.8 MISCELLANEOUS:

#### 3.19.2.8.1 ASH TRAYS: Ash trays shall be provided for the following:

One pilot  
One copilot  
One flight engineer  
One observer  
One for each passenger seat including club area (interchangeable)  
One at each lavatory entrance (placarded for use before entering)

#### 3.19.2.8.2 CHECK-OFF LIST: One roll-type pilot's check-off list shall be provided in the flight compartment.

#### 3.19.2.8.3 CERTIFICATE HOLDER: One transparent airworthiness certificate holder shall be provided.

#### 3.19.2.8.4 RADIO LICENSE HOLDER: One transparent radio license holder shall be provided in the flight compartment.

#### 3.19.2.8.5 FLIGHT MANUAL: One CAA approved aircraft flight manual shall be provided and stowed in the flight compartment, in the same container provided for airplane and engine log books.

#### 3.19.2.8.6 FLIGHT KIT STOWAGE: One flight kit stowage shall be provided on the floor outboard of the pilot and copilot seats.

#### 3.19.2.8.7 CREW LOCKER: One crew locker shall be provided for the flight crew for stowing coats and miscellaneous equipment.

#### 3.19.2.8.8 MAGAZINE RACKS: Four magazine racks of the self-cleaning-type shall be installed; one in aft part of the forward entrance area, two in the aft part of aft entrance area and one in the club area.

#### 3.19.2.8.9 AIR SICKNESS: Provisions shall be made at each passenger seat for stowing air sickness bags.

#### 3.19.2.8.10 PLACARDS: The required placards in the flight compartment shall be silk-screened metal and shall be removable. This shall also apply in the passenger compartment, except where other materials may be used for reasons of appearance. Luminous paint shall be used for lettering on emergency exit placards. A placard visible to both pilots to indicate values of $V_1$ and $V_2$ speeds in knots vs. representative operating weight values from minimum to maximum shall be provided. Location shall be subject to Buyer approval at mock-up.



- 3.19 FURNISHINGS AND EQUIPMENT (Cont)
- 3.19.2.8 MISCELLANEOUS:
- 3.19.2.8.1 ASH TRAYS: Ash trays shall be provided for the following:
- One pilot
  - One copilot
  - One flight engineer
  - (3.19-32) One observer
  - One for each passenger seat including lounges (interchangeable)
  - One at each lavatory entrance (placarded for use before entering)
- 3.19.2.8.2 CHECK-OFF LIST: One roll-type pilot's check-off list shall be provided in the flight compartment.
- 3.19.2.8.3 CERTIFICATE HOLDER: One transparent airworthiness certificate holder shall be provided.
- 3.19.2.8.4 RADIO LICENSE HOLDER: One transparent radio license holder shall be provided in the flight compartment.
- 3.19.2.8.5 FLIGHT MANUAL: One CAA approved aircraft flight manual shall be provided and stowed in the flight compartment, in the same container provided for airplane and engine log books.
- 3.19.2.8.6 FLIGHT KIT STOWAGE: One flight kit stowage shall be provided on the floor outboard of the pilot and copilot seats.
- 3.19.2.8.7 CREW LOCKER: One crew locker shall be provided for the flight crew for stowing coats and miscellaneous equipment.
- 3.19.2.8.8 MAGAZINE RACKS: Two suitable magazine racks of the self cleaning type shall be installed in the forward and aft sections of the main passenger cabin and shall be so arranged as to be adequate for use in all three interior configurations.
- (3.19-D15)
- 3.19.2.8.9 AIR SICKNESS: Provisions shall be made at each passenger seat for stowing air sickness bags.
- 3.19.2.8.10 PLACARDS: The required placards in the flight compartment shall be silk-screened metal and shall be removable. This shall also apply in the passenger compartment, except where other materials may be used for reasons of appearance. Luminous paint shall be used for lettering on emergency exit placards. A placard visible to both pilots to indicate values of  $V_1$  and  $V_2$  speeds in knots vs. representative operating weight values from minimum to maximum shall be provided. Location shall be subject to Buyer approval at mock-up.
- (3.19-1)
- (3.19-D19)



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.8.10 Placards containing information and/or instructions shall be provided for the following:

Emergency exits hatch operation (two, in English and Spanish)

Controls on pedestal

Seat letter and row numbers (both sides)

Escape gear

Cargo loading

Fire extinguishers

Lavatory signs (one for each lavatory, over "Occupied - Vacant" signs, in English and Spanish)

Oxygen equipment

Drinking water

Lavatory ash trays

Lavatory equipment

No smoking (lavatories)

First aid kit

3.19.2.8.11 DRINKING WATER OUTLETS: Requirements deleted.

3.19.2.8.12 COFFEE CONTAINERS: Individual coffee cup holders shall be provided for each crew member except observer.

3.19.2.8.13 ASSIST HANDLES AND BARRIERS: An assist handle capable of supporting a 200-pound man shall be provided on the frame on the hinge side at each main entry door and galley service door. Door safety barriers shall be provided at each main entry and galley service door.

3.19.3 FURNISHINGS:

3.19.3.1 GENERAL ARRANGEMENT: The standard fuselage interior general arrangement is shown herein on Figure 1-2 and Figure 1-3. Interior trim fabrics, upholstery, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification.

3.19.3.1.1 PASSENGER COMPARTMENT: The passenger compartments provide seating accommodations for 84 passengers, including 12 club area passengers. In the standard configuration, the passenger compartment aisle shall be 24 inches wide between arm rests, and in the coach configuration will be at least 18 inches. The minimum clear ceiling height to the main cabin shall be at least 85 inches except in the areas of lowered ceiling.

3.19.3.2 FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Acid-resistant paint shall be applied to the metal under-surface of the floor and to the structure only in the lavatory and buffet areas extending 20 inches forward, aft and laterally as well as above and below the floor. Floor covering shall be installed to restrict creeping and curling. A readily removable section of the carpeting in the entry way shall be provided.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.8.10 Placards containing information and/or instructions shall be provided for the following:

Emergency exits hatch operation (two, in English and Spanish)	Oxygen equipment
Controls on pedestal	Drinking water
Seat letter and row numbers (both sides)	Lavatory ash trays
Escape gear	Lavatory equipment
Cargo loading	No Smoking (lavatories)
Fire extinguishers	First aid kit
Lavatory signs (one for each lavatory, over "Occupied- Vacant" signs, in English and Spanish)	

3.19.2.8.11 DRINKING WATER OUTLETS; Requirements deleted.

3.19.2.8.12 COFFEE CONTAINERS: Individual coffee cup holders shall be provided for each crew member except observer.

3.19.2.8.13 ASSIST HANDLES AND BARRIERS: An assist handle capable of supporting a 200-pound man shall be provided on the frame on the hinged side at each main entry door and galley service door. Door safety barriers shall be provided at each main entry and galley service door.

3.19.3 FURNISHINGS:

3.19.3.1 GENERAL ARRANGEMENT: The standard fuselage interior general arrangement is shown herein on Figure 1-2 and Figure 1-3. Interior trim fabrics, upholstery, floor coverings, finishes and color scheme shall be as described in Convair Interior Finish Specification.

3.19.3.1.1 PASSENGER COMPARTMENT: The passenger compartments provide seating accommodations for 84 passengers, including 12 club area passengers. In the standard configuration, the passenger compartment aisle shall be 28 inches wide between arm rests, and in the coach configuration will be at least 18 inches. The minimum clear ceiling height to the main cabin shall be at least 85 inches except in the areas of lowered ceiling.

3.19.3.2 FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Acid-resistant paint shall be applied to the metal undersurface of the floor and to the structure only in the lavatory and buffet areas extending 20 inches forward, aft and laterally as well as above and below the floor. Floor covering shall be installed to restrict creeping and curling. A readily removable section of the carpeting in the entry way shall be provided.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.2.8.10 (Cont) Placards containing information and/or instructions shall be provided for the following:

Emergency exits	Oxygen equipment
Controls on pedestal	Drinking water
Seat letter and row number (both sides)	Lavatory and tray
Escape gear	Lavatory equipment
Cargo loading	No smoking (lavatories)
Fire extinguishers	First Aid Kit

3.19.2.8.11 (3.19-D16) DRINKING WATER OUTLETS: Requirements deleted.

3.19.2.8.12 (3.19-47) COFFEE CONTAINERS: Individual coffee cup holder shall be provided for each crew member except observer.

3.19.2.8.13 (3.19-45) ASSIST HANDLES AND BARRIERS: An assist handle capable of supporting a 200 pound man shall be provided on the frame on the hinge side at each main entry door and galley service door. Door safety barrier shall be provided at each main entry and galley service door.

3.19.3 FURNISHINGS:

3.19.3.1 GENERAL ARRANGEMENT: The standard fuselage interior general arrangement is shown herein on Figure 1-2 and 1-3. Interior trim fabrics, upholstery, floor covering, finishes and color scheme shall be as described in Convaair Interior Finish Specification.

3.19.3.1.1 (3.19-D17) PASSENGER COMPARTMENT: The passenger compartment shall provide accommodations as shown on Figure 1-2 and 1-3. In the standard configuration, the passenger compartment aisle shall be 20 inches wide between arm rests, and in the coach configuration will be at least 10 inches. The minimum clear ceiling height to the main cabin shall be at least 50 inches.

3.19.3.2 (3.19-35) FLOOR COVERING: Floor covering throughout the aircraft shall be as specified by the Interior Finish Specification. Acid-resistant paint shall be applied to the metal under-surface of the floor and to the structure only in the lavatory and buffet areas extending 20 inches forward, aft and laterally as well as above and below the floor. Floor covering shall be installed to restrict creeping and curling. A readily removable section of the carpeting in the entry ways shall be provided.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

138  
160  
3.19.3.3 TRIM: Interior trim lining throughout the aircraft shall be of replaceable and of flame-resistant material as specified by the Interior Finish Specification. Interior trim shall be of modular construction no longer (longitudinally) than 11 feet, except for the canopy assemblies which shall not exceed approximately 15 feet. Carpating shall be provided on side walls of cabin interior extending approximately ten inches up the walls.

3.19.3.3.1 FROST INSULATION: It shall be a design objective to prevent condensation of moisture on any interior surfaces under any flight conditions. In any event condensation shall not drip into the interior of the airplane.

3.19.3.4 SOUNDPROOFING: See Paragraph 3.7.1.1.1.

3.19.3.5 CURTAINS: All passenger compartment windows shall be provided with glare control. Each passenger coat compartment opening shall be curtained. Curtain material shall be as specified in the Finish Specification.

3.19.3.6 HAT RACKS: Overhead hat racks shall be installed extending the full length of the passenger compartment except in the area of the stowage bins. They shall be sufficiently rigid to support passenger walking in the aisle in rough weather. The racks shall be designed for a stowage load of one pound per lineal inch and an additional load of 170 pounds applied at each third row of seats. Stowage bins, to break the continuity of the hat racks, shall be installed in four locations on each side of the aisle. A door, or doors, shall be provided for each bin.

3.19.4 FIRE EXTINGUISHING EQUIPMENT:

3.19.4.1 FIRE-EXTINGUISHING SYSTEM: Two "HMD"-type, two-shot (main and reserve) fire-extinguishing systems shall be installed to extinguish fires in nacelle areas, both in flight and on the ground, and shall conform to the requirements of CAM. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. Fire extinguishing agent shall be bromo-tri-fluormethane. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible.



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.3.3 TRIM: Interior trim lining throughout the aircraft shall be of replaceable and of flame-resistant material as specified by the Interior Finish Specification. Interior trim shall be of modular construction no longer (longitudinally) than 11 feet. Carpeting shall be provided on side walls of cabin interior extending approximately ten inches up the walls.
- 3.19.3.3.1 FROST INSULATION: It shall be a design objective to prevent condensation of moisture on any interior surfaces under any flight conditions. In any event condensation shall not drip into the interior of the airplane.
- 3.19.3.4 SOUNDPROOFING: See Paragraph 3.7.1.1.1.
- 3.19.3.5 CURTAINS: All passenger compartment windows shall be provided with glare control. Each passenger boat compartment opening shall be curtained. Curtain material shall be as specified in the Finish Specification.
- 3.19.3.6 HAT RACKS: Overhead hat racks shall be installed extending the full length of the passenger compartment except in the area of the stowage bins. They shall be sufficiently rigid to support passenger walking in the aisle in rough weather. The racks shall be designed for a stowage load of one pound per lineal inch and an additional load of 170 pounds applied at each third row of seats. Stowage bins, to break the continuity of the hat racks, shall be installed in four locations on each side of the aisle. A door, or doors, shall be provided for each bin.
- 3.19.4 FIRE EXTINGUISHING EQUIPMENT:
- 3.19.4.1 FIRE-EXTINGUISHING SYSTEM: Two "HRD"-type, two-shot (main and reserve) fire-extinguishing systems shall be installed to extinguish fires in nacelle areas, both in flight and on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. Fire extinguishing agent shall be bromo-tri-fluoromethane. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible.



- 3.19 FURNISHINGS AND EQUIPMENT (Cont)
- 3.19.3.3 TRIM: Interior trim lining throughout the aircraft shall be of replaceable and of flame-resistant material as specified by the Interior Finish Specification. Interior trim shall be of modular construction no longer (longitudinally) than eleven feet.
- (3.19-40)
- 3.19.3.3.1 FROST INSULATION: It shall be a design objective to prevent condensation of moisture on any interior surfaces under any flight conditions. In any event condensation shall not drip into the interior of the airplane.
- (3.19-54)
- 3.19.3.4 SOUNDPROOFING: See Paragraph 3.7.1.1.1
- 3.19.3.5 CURTAINS: All passenger compartment windows shall be provided with removable curtains capable of being pulled back clear of the windows, and they shall not interfere with escape hatch operation. Each passenger coat compartment opening shall be curtained. Curtain material shall be as specified in the Finish Specification. Window curtains, wherever practicable, shall be interchangeable.
- 3.19.3.6 HAT RACKS: Overhead hat racks shall be installed, extending the full length of the passenger compartment in the Standard Version.
- 3.19.4 FIRE EXTINGUISHING EQUIPMENT:
- 3.19.4.1 FIRE-EXTINGUISHING SYSTEM: Two "HRD" type, two shot (main and reserve) fire-extinguishing systems shall be installed to extinguish fires in nacelle areas, both in flight and on the ground, and shall conform to the requirements of CAR. The complete installation shall consist of two independent systems; one for the right hand propulsion systems, and one for the left hand propulsion systems. Fire extinguishing agent shall be bromo-tri-fluormethane. The containers shall be charged with the extinguishing agent and nitrogen. A pressure gage shall be provided at each fire extinguishing agent container. The heating and ventilating systems shall be designed so that entry of discharged fire extinguishing agent into the occupied areas will not be possible.
- (3.19-2)



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.4.1.1 CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective nacelles. A switch shall be provided for each nacelle to select either the main or reserve system. Electrical power for the fire-extinguisher system shall be obtained from the emergency bus. Controls for the fire wall emergency shut-off valves shall be located in such a manner as to require closing of these valves prior to operating the extinguishing system for the section concerned.
- 3.19.4.1.2 SHUT-OFF VALVES: Shut-off valves, manually operable from one handle and interconnected on the firewall between the wing and nacelle, shall be provided for the fuel and hydraulic systems of each engine. (Reference Paragraphs 3.12 and 3.15.1.6.)
- 3.19.4.1.3 EXTINGUISHING AGENT: The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during pre-flight inspection.
- 3.19.4.1.4 FIRE EXTINGUISHING PROVISIONS: Space provisions for a 12-gal-long capacity (per engine) NACA engine water crash fire extinguishing system shall be made. The space provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of access door or doors. These space provisions shall be compatible with later installation of center section fuel cells. (Ref. Par.3.5.2.3.)
- 3.19.4.2 FIRE DETECTION SYSTEM:
- 3.19.4.2.1 GENERAL: D-C operated, transistorized, rate of rise, continuous-type fire detectors shall be installed in the nacelles, including the engine compressor-accessory section and the engine burner and turbine sections. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system.
- 3.19.4.2.2 INDICATORS: Dual-light indicators for each detector circuit shall be located adjacent to the fire extinguisher discharge switch. A test switch for all detector units shall be located on the control panel. A steady light shall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burner-turbine section.
- 3.19.4.3 HAND FIRE EXTINGUISHERS: Four portable hand fire extinguishers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 800341 anti-freeze or equivalent.
- 3.19.4.3.1 CO<sub>2</sub> EXTINGUISHER: One CO<sub>2</sub> extinguisher shall be provided in the pilots' compartment.
- 3.19.4.3.2 WATER FIRE EXTINGUISHER: Three water fire extinguishers shall be provided; one located in the forward entrance area and two on the forward side of the partition immediately forward of the aft entrance way.
- 3.19.4.3.3 Deleted.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.4.1.1 CONTROLS: A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective nacelles. A switch shall be provided for each nacelle to select either the main or reserve system. Electrical power for the fire-extinguisher system shall be obtained from the emergency bus. Controls for the fire wall emergency shutoff valves shall be located in such a manner as to require closing of these valves prior to operating the extinguishing system for the section concerned.

3.19.4.1.2 SHUTOFF VALVES: Shutoff valves, manually operable from one handle and interconnected on the fire wall between the wing and nacelle, shall be provided for the fuel and hydraulic systems of each engine. (Reference Paragraphs 3.12 and 3.15.1.6)

3.19.4.1.3 EXTINGUISHING AGENT: The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during preflight inspection.

3.19.4.1.4 FIRE EXTINGUISHING PROVISIONS: Space provisions for a 12 gallon capacity (per engine) NACA engine water crash fire extinguishing system shall be made. The space provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of access door or doors. These space provisions shall be compatible with later installation of center section fuel cells. (Ref. Par. 3.5.2.3)

3.19.4.2 FIRE DETECTION SYSTEM:

3.19.4.2.1 GENERAL: Single loop, discrete sensing, continuous type fire detectors shall be installed in the nacelles, including the engine compressor-accessory section and the engine burner and turbine section. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system.

3.19.4.2.2 INDICATORS: Dual light indicators for each detector circuit shall be located adjacent to the fire extinguisher discharge switch. A test switch for all detector units shall be located on the control panel. A steady light shall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burner-turbine section.

3.19.4.3 HAND FIRE EXTINGUISHERS: Four portable hand fire extinguishers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 8003-1 anti-freeze or equivalent.

3.19.4.3.1 CO<sub>2</sub> EXTINGUISHER: One CO<sub>2</sub> extinguisher shall be provided in the pilot compartment.

3.19.4.3.2 WATER FIRE EXTINGUISHER: One water fire extinguisher shall be provided in each entrance area.

3.19.4.3.3 PASSENGER COMPARTMENT FIRE EXTINGUISHER: One water fire extinguisher shall be provided in the passenger compartment.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.4.1.1 **CONTROLS:** A selective-type control system shall be installed which shall allow the extinguishing agent to be directed to the respective nacelles. A switch shall be provided for each nacelle to select either the main or reserve system. Electrical power for the fire-extinguisher system shall be obtained from the emergency bus. Controls for the fire wall emergency shut-off valves shall be located in such a manner as to require closing of these valves prior to operating the extinguishing system for the section concerned.
- 3.19.4.1.2 **SHUT-OFF VALVES:** Shut-off valves, manually operable from one handle and interconnected on the fire wall between the wing and nacelle, shall be provided for the fuel and hydraulic systems of each engine. (Reference Paragraphs 3.12 and 3.15.1.6)
- 3.19.4.1.3 **EXTINGUISHING AGENT:** The supply bottles shall be accessible and removable for recharging and inspection. Bottle pressure gages shall be readily accessible for viewing during pre-flight inspection.  
(3.19-6)
- 3.19.4.1.4 **FIRE EXTINGUISHING PROVISIONS:** Space provisions for a 12 gallon capacity (per engine) NACA engine water crash fire extinguishing system shall be made. The space provisions may be made in the wing center section. If so located, the structure shall be designed for the later addition of access door or doors. These space provisions shall be compatible with later installation of center section fuel cells. (Ref. Par. 3.5.2.3)  
(3.19-4)
- 3.19.4.2 **FIRE DETECTION SYSTEM:**
- 3.19.4.2.1 **GENERAL:** DC operated transistorized, rate of rise, continuous type fire detectors shall be installed in the nacelles, including the engine compressor-accessory section and the engine burner and turbine section. The fire warning system shall be such as to minimize false warnings and maintenance. Access shall be provided for maintenance of the fire detector system.  
(3.19-7)
- 3.19.4.2.2 **INDICATORS:** Dual light indicators for each detector circuit shall be located adjacent to the fire extinguisher discharge switch. A test switch for all detector units shall be located on the control panel. A steady light shall indicate a fire in the compressor-accessory section and a blinking light shall indicate an overheat condition in the burner-turbine section.
- 3.19.4.3 **HAND FIRE EXTINGUISHERS:** Four portable hand fire extinguishers shall be installed as indicated below. Water fire extinguishers shall be winterized, using Walter Kidde 800341 anti-freeze or equivalent.  
(3.19-5)
- 3.19.4.3.1 **CO<sub>2</sub> EXTINGUISHER:** One CO<sub>2</sub> extinguisher shall be provided in the pilots' compartment.
- 3.19.4.3.2 **WATER FIRE EXTINGUISHER:** One water fire extinguisher shall be provided in each entrance area.
- 3.19.4.3.3 **PASSENGER COMPARTMENT FIRE EXTINGUISHER:** One water fire extinguisher shall be provided in the passenger compartment.



3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.5 OXYGEN SYSTEM:

3.19.5.1 (3.19-66) GENERAL: A "Liquid Oxygen Converter" type oxygen system shall be installed for use of the operating crew (pilot, copilot and flight engineer), passengers, nonoperating crew (observer and cabin attendants) and each lavatory. The system shall be in accordance with CAR requirements and shall provide automatic regulators with an automatic release valve with manual override provisions in the event of cabin pressure failure.

3.19.5.2 (3.19-62) COMPONENTS: System components shall be comprised of a converter with filling provisions, regulators, valves, pressure and quantity gages, metering orifice valve, tubing and mask assemblies.

3.19.5.3 (3.19-64) OXYGEN SUPPLY REQUIREMENTS: The available oxygen supply (including portable bottles - see Par. 3.19.5.6) shall provide the following, with a 10 percent additional amount for safety, and based on use of diluter demand masks for the flight crew and continuous flow masks (with rebreathers) for the passengers:

1. For passengers:

- a. Descent from operating altitude to 17,000 feet in 3 minutes.
- b. 15 minute flight at 17,000 feet and
- c. 10 percent of passengers and cabin attendants at 14,000 feet for 30 minutes.

2. For crew:

- a. One flight crew member on oxygen at all flight altitudes above 17,000 feet.
- b. Descent from operating altitude to 17,000 feet in 3 minutes.
- c. 15 minutes flight at 17,000 feet and
- d. 1 hour, 45 minutes flight at 14,000 feet.



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one additional mask shall be made for each seat row in the main cabin area (three masks for each of the 19 rows on both sides of the airplane) to provide for emergency oxygen for children in arms. The oxygen outlet system for the club area shall be as shown on Figure 3.19-4.

3.19.5.5 MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type.

3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full face mask and one pair of asbestos gloves, shall be provided in the flight station. Three 7-cubic foot capacity portable oxygen bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: One in the forward left hand hat rack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin.

3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.

3.19.6 EMERGENCY RESCUE EQUIPMENT:

3.19.6.1 \*FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.

\*Operating items (not included in weight empty of airplane).



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

43  
184A  
224  
3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one additional mask shall be made for each seat row in the main cabin area (three masks for each of the 19 rows on both sides of the airplane) to provide for emergency oxygen for children in arms. The oxygen outlet system for the club area shall be as shown on Figure 3.19-4.

30B  
184A  
3.19.5.5 MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramie" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type.

30  
30B  
3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full face mask and one pair of asbestos gloves, shall be provided in the flight station. Three 7-cubic foot capacity portable oxygen bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: one in the forward left hand hatrack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin.

3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.

3.19.6 EMERGENCY RESCUE EQUIPMENT:

3.19.6.1 FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.

3.19.6.2 EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit.

206  
3.19.6.3 EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exits, including assist ropes at exits over the wing and over left and right hand windows in flight compartment. In addition, crew assist ropes (cont)



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

84A 3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations and all passenger locations. Two oxygen outlets shall be provided in each lavatory. Provisions for one additional mask shall be made for each seat row (three masks for each seat row on both sides of the airplane) to provide for emergency oxygen for children in arms.

DB 84A 3.19.5.5 MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scotto-ramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be of the disposable type.

OB 3.19.5.6 PORTABLE BOTTLES: One portable 11-cubic foot capacity, high pressure protective oxygen unit, including cylinder, full face mask and one pair of asbestos gloves, shall be provided in the flight station. Three 7-cubic foot capacity portable oxygen bottles, each with continuous flow regulators and two Scott "KS" continuous flow mask assemblies shall be provided in the passenger compartment. The bottles shall be located as follows: one in the forward left hand hatrack stowage bin, one in the left hand mid-cabin stowage bin and one in the aft left hand stowage bin.

3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.

3.19.6 EMERGENCY RESCUE EQUIPMENT:

3.19.6.1 FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.

3.19.6.2 EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit.

206 3.19.6.3 EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exits, including assist ropes at exits over the wing and over left and right hand windows in flight compartment. In addition, crew assist ropes



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3.19 FURNISHINGS AND EQUIPMENT (Cont)

+3 3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations, lavatories and all passenger locations. Provisions for one additional mask shall be made for each seat row (3 masks for each seat row on both sides of the airplane) to provide for emergency oxygen for children in arms.

3.19.5.5 MASKS: Provisions shall be made for stowing <sup>five</sup> ~~four~~ crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. One oxygen outlet shall be provided in each lavatory. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. ~~Passenger masks shall be Puritan #1040 disposable type or equivalent.~~

3.19.5.6 PORTABLE BOTTLES: <sup>own 310 liter</sup> ~~Two~~ portable low pressure protective oxygen units, including cylinder, full face mask and asbestos gloves shall be installed in the flight station. Three 310-liter portable oxygen bottles with demand regulators and masks shall be provided, two of which shall be located in the aft coat compartment and one of which shall be located in the forward coat compartment.

3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.

3.19.6 EMERGENCY RESCUE EQUIPMENT:

3.19.6.1 FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.

3.19.6.2 EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit.

3.19.6.3 EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exits, including assist ropes at exits over the wing, and at the forward main entrance door, and noninflatable escape chutes



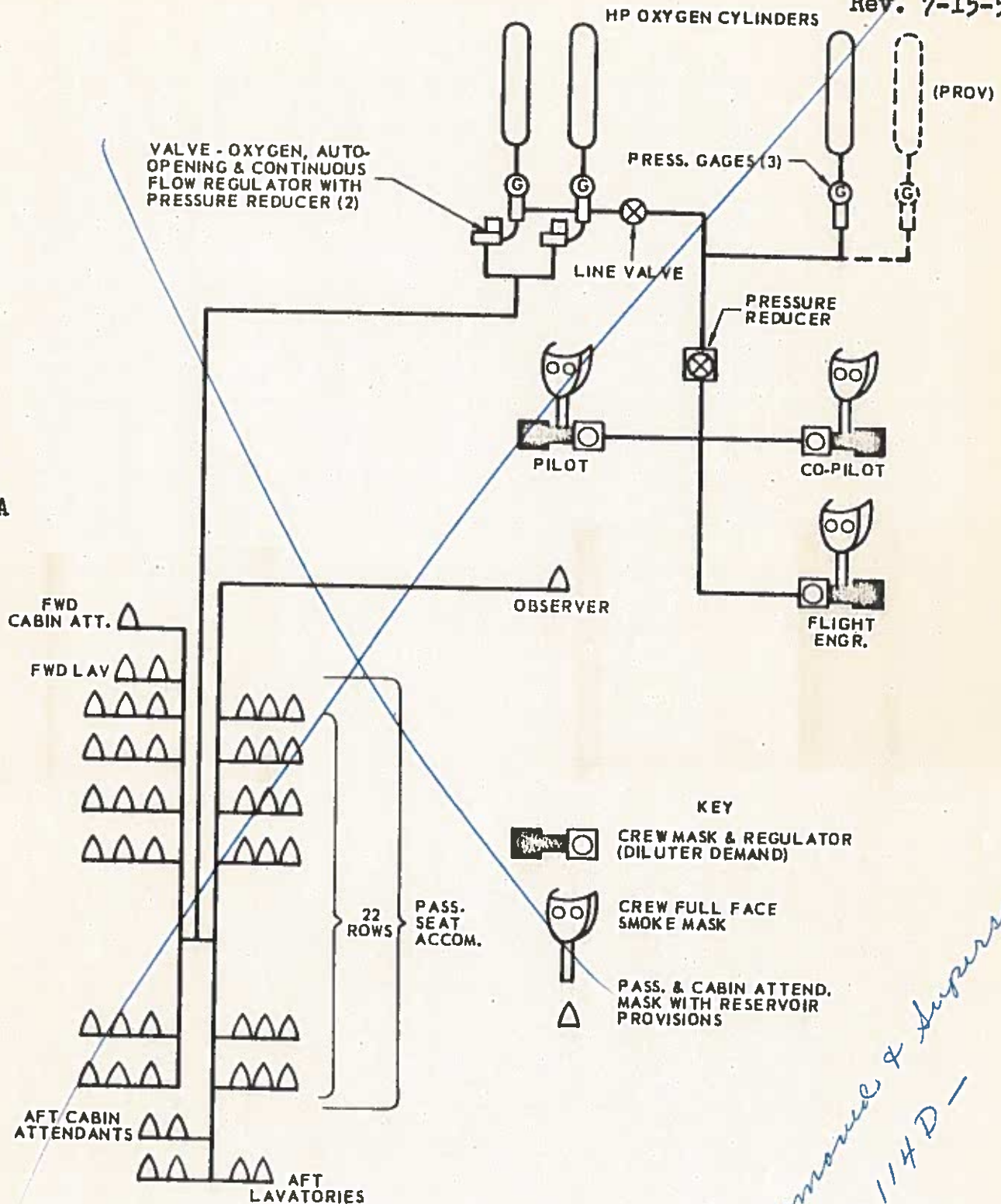
3.19 FURNISHINGS AND EQUIPMENT (Cont)

- 3.19.5.4 INDIVIDUAL OUTLETS: Individual outlets shall be installed for use with the supplemental oxygen system at the cabin attendants' stations, lavatories and all passenger locations.
- 3.19.5.5 MASKS: Provisions shall be made for stowing four crew supplemental masks in the flight station. Provisions shall be made for stowing passenger supplemental masks where one will be accessible for installation and use by each passenger within 15 seconds. The flight crew oxygen system shall be so arranged that the masks can be continuously plugged in and available for immediate use. Oxygen outlets shall be located at the flight crew stations, at flight observer station, and at all passenger seats and cabin attendants' stations for a coach configuration. One oxygen outlet shall be provided in each lavatory. The flight crew outlets shall be provided with a tee valve to allow installation of two masks at each station. A "Scottoramic" protective mask shall be installed and connected to one side of the tee outlet at each flight crew station. A supplemental mask shall be provided for each cockpit station and shall be stowed accessible to the station when the occupant of the station is in his normal seated position. Passenger masks shall be Puritan #1040 disposable type or equivalent.
- (3.19-58)
- (3.19-61)
- (3.19-69)
- 3.19.5.6 PORTABLE BOTTLES: Two portable low pressure protective oxygen units, including cylinder, full face mask and asbestos gloves shall be installed in the flight station. Three 310-liter portable oxygen bottles with demand regulators and masks shall be provided, two of which shall be located in the aft coat compartment and one of which shall be located in the forward coat compartment.
- (3.19-60)
- 3.19.5.7 SYSTEM CHARGE: The entire oxygen system shall be fully charged and operable at time of delivery.
- 3.19.6 EMERGENCY RESCUE EQUIPMENT:
- 3.19.6.1 FIRST AID KITS: Provisions for stowage of one first aid kit shall be made in or adjacent to each cabin attendant's station.
- 3.19.6.2 EMERGENCY AXE: Provisions for one emergency axe shall be made in the cockpit.
- (3.19-42)
- 3.19.6.3 EVACUATION PROVISIONS: Suitable means shall be provided for assisting rapid evacuation from emergency exists, including assist ropes at exits over the wing, and at the forward main entrance door, and noninflatable escape chutes
- (3.19-44)



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8110A 10-27-58

GASEOUS OXYGEN SYSTEM

*Was removed & superseded  
by Page 114D -*



3.19 FURNISHINGS AND EQUIPMENT (Cont)

206 shall be provided at the forward main entrance door, and nonin-  
200 flatable escape chutes at each galley service door. One in-  
flatable escape slide shall be installed and stowed adjacent to  
each passenger entry door. The design objective for the instal-  
lation shall be such that the chute (starting from the stowed  
position) can be operated by the attendant and available for  
use in ten seconds maximum time, and the installation shall be  
such as to withstand 60 mph winds acting against the sides of  
the chute in the extended position. These items are included  
in Useful Load - Emergency Equipment. The installation provi-  
sions including inflation equipment are included in weight  
empty. One bilingual, lighted "Exit" sign (English and Spanish)  
shall be installed at each main entrance door and service door;  
and one bilingual, lighted "Emergency Exit" sign (English and  
Spanish) shall be installed at each of the two emergency exits.

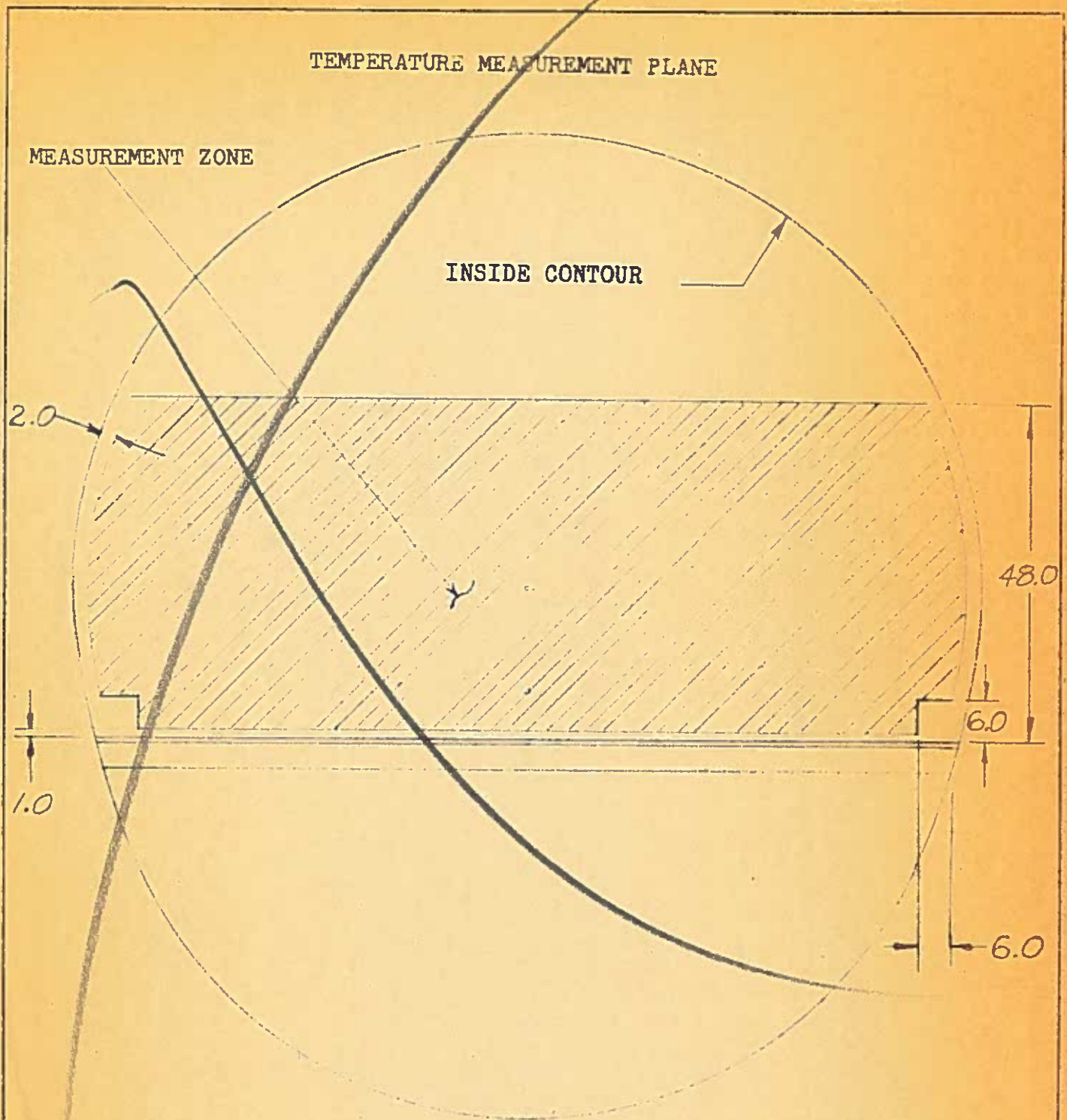


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- NOTE: 1. "Free air temperature" is temperature measured away from the direct influence of supply air jet temperatures.  
2. The limiting temperature variations shall be applicable only to an airplane carrying no passengers.

FIGURE 3.191



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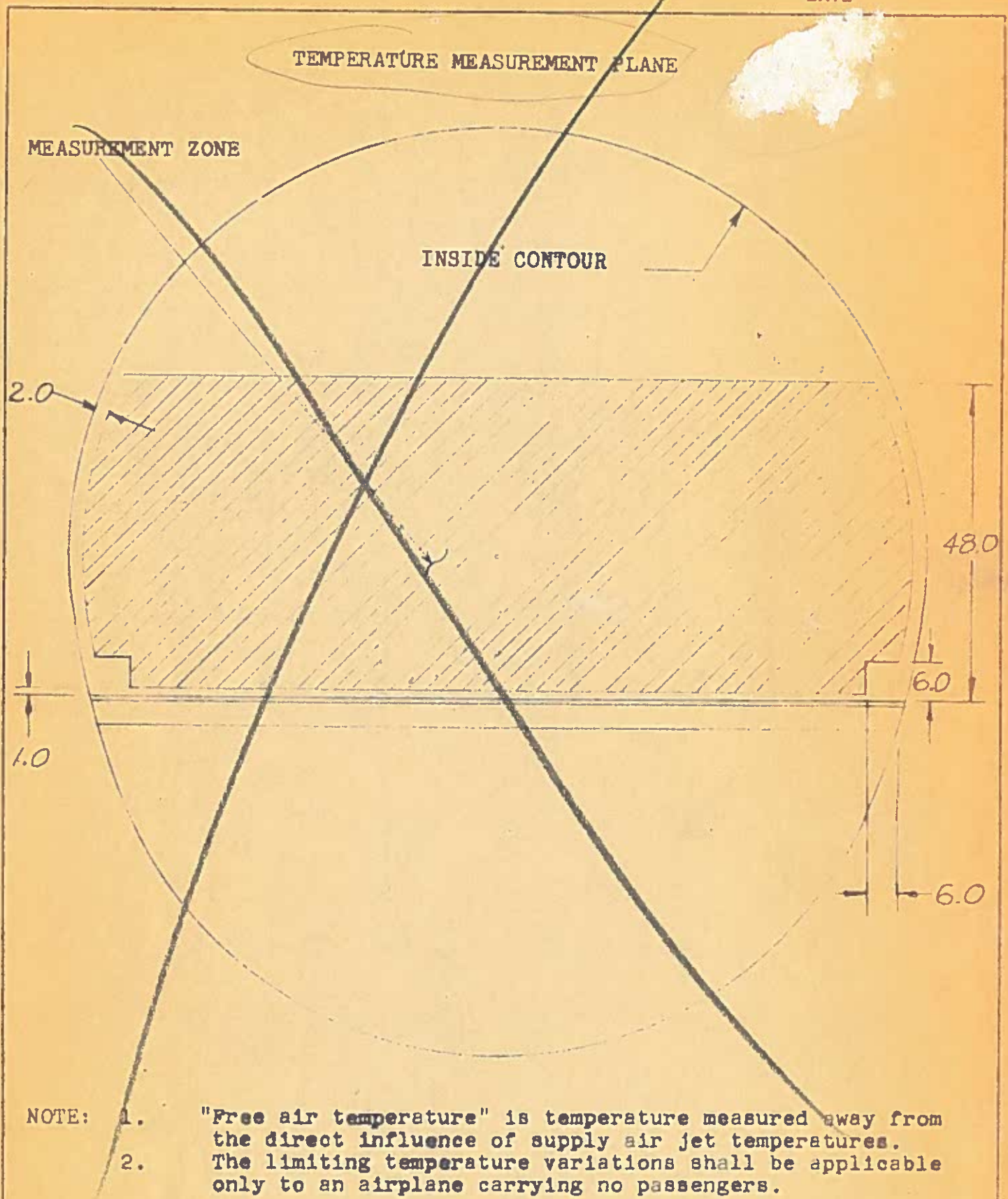
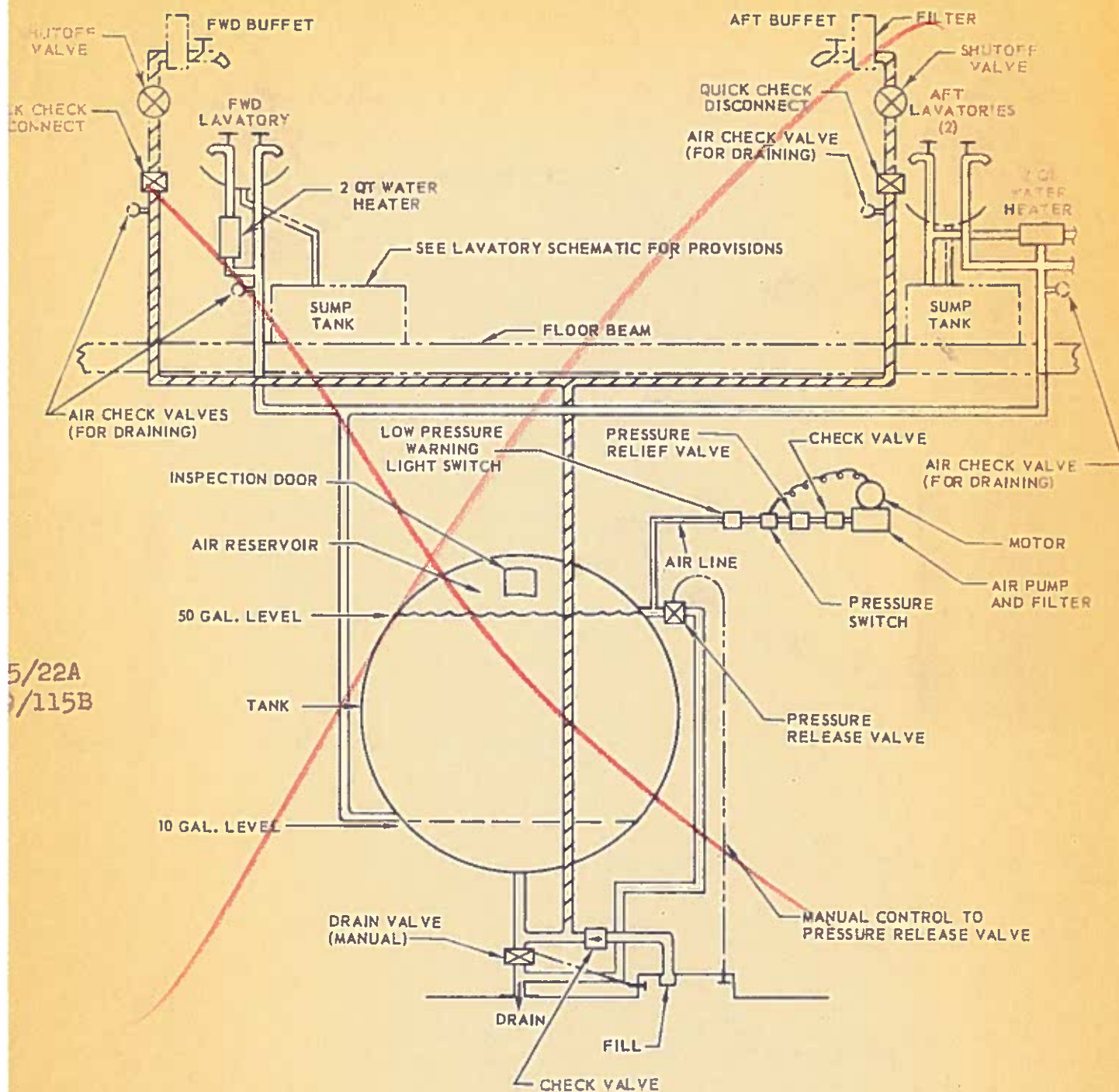


FIGURE 3.191







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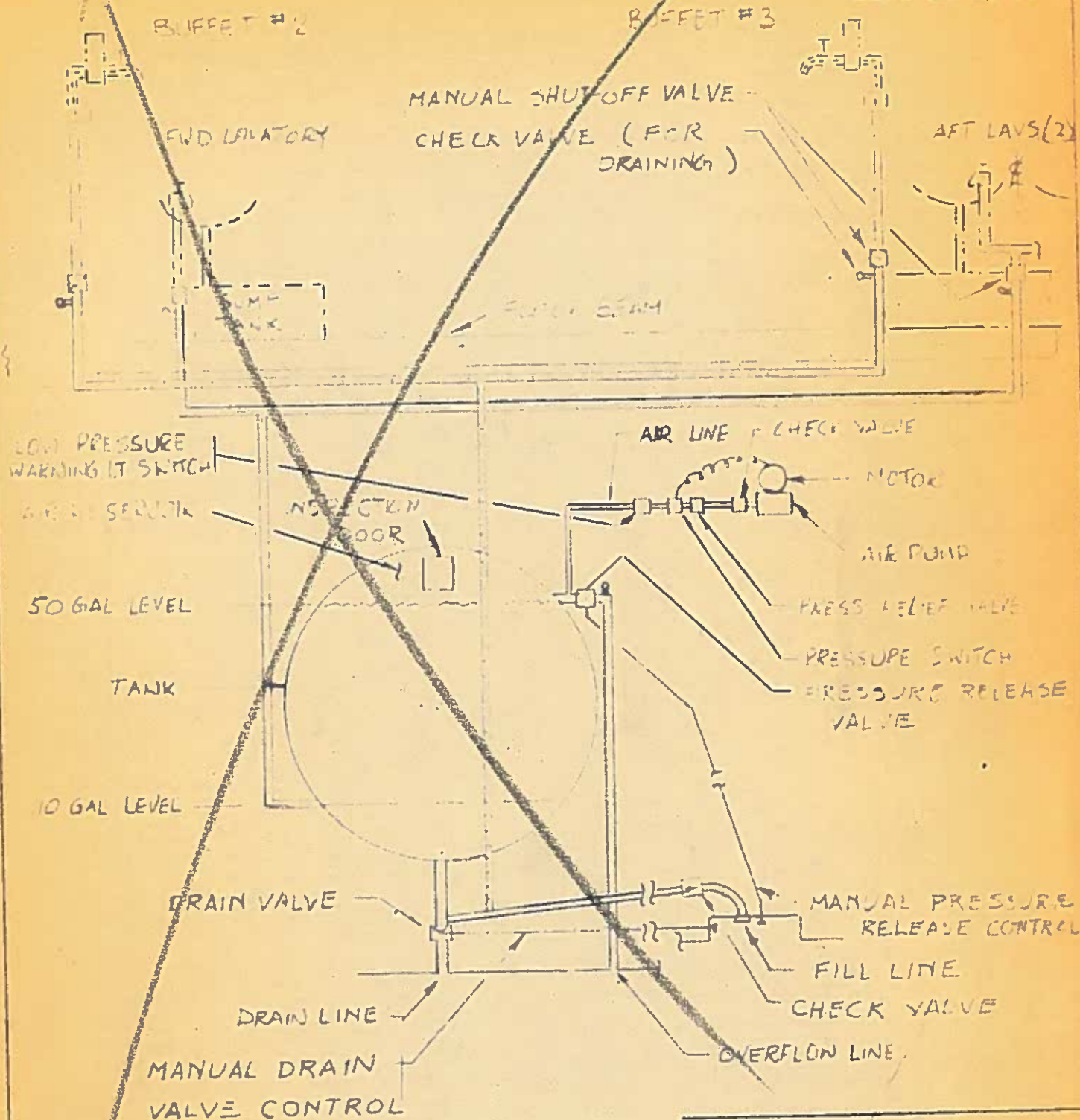


Fig. 3.19-2

WATER SYSTEM  
SCHEMATIC



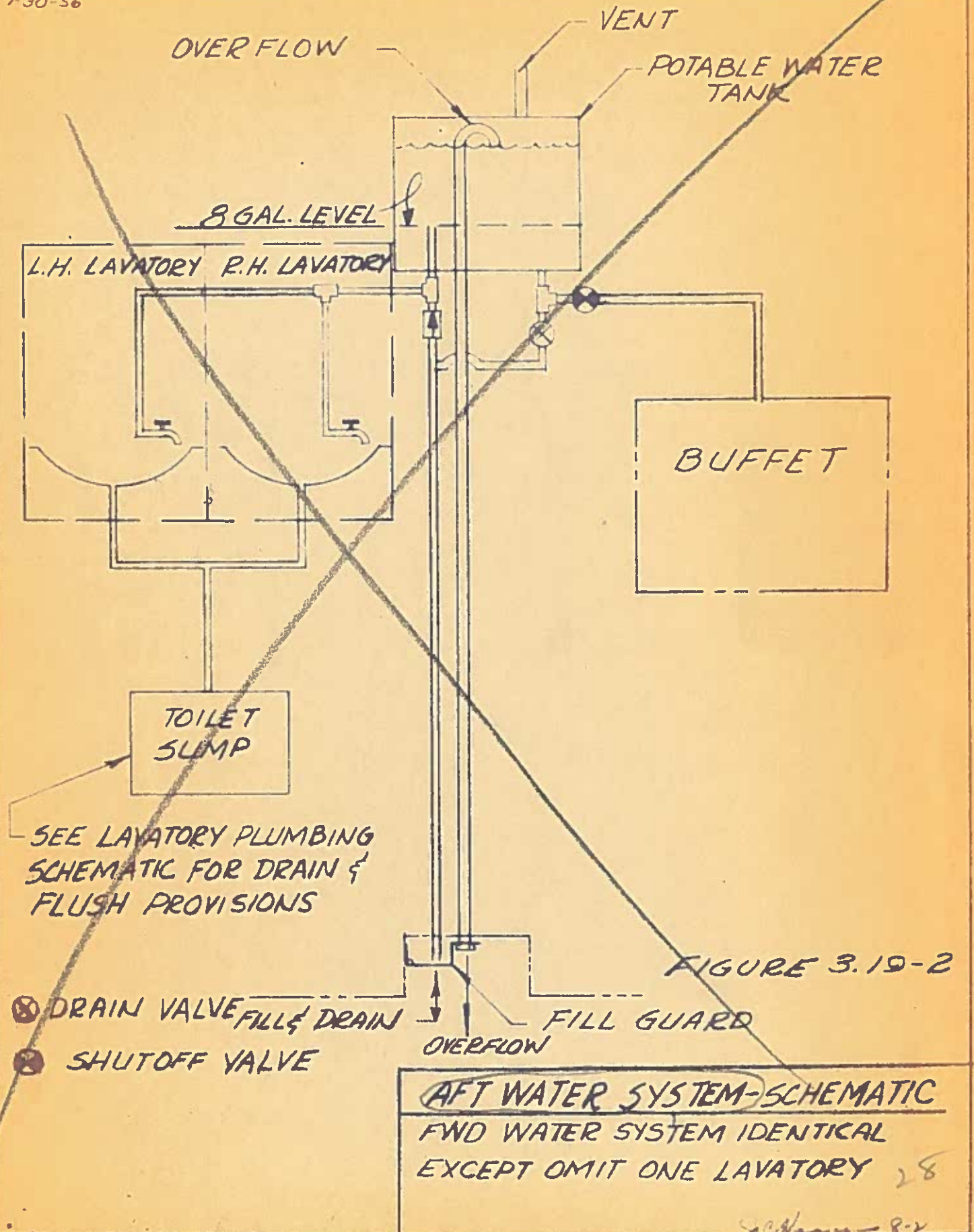
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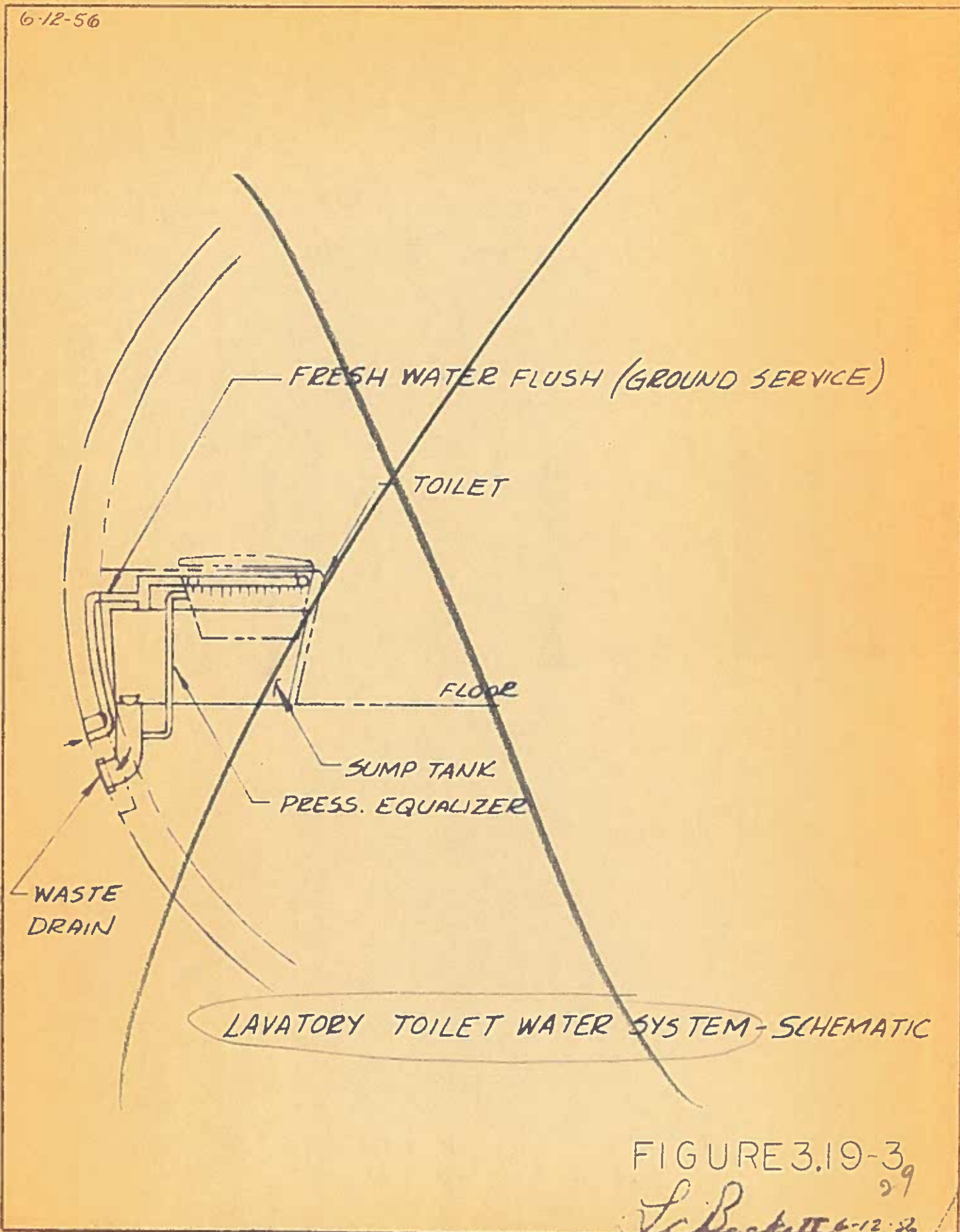


FIGURE 3.19-3  
29

L. B. Beckwith 6-12-56



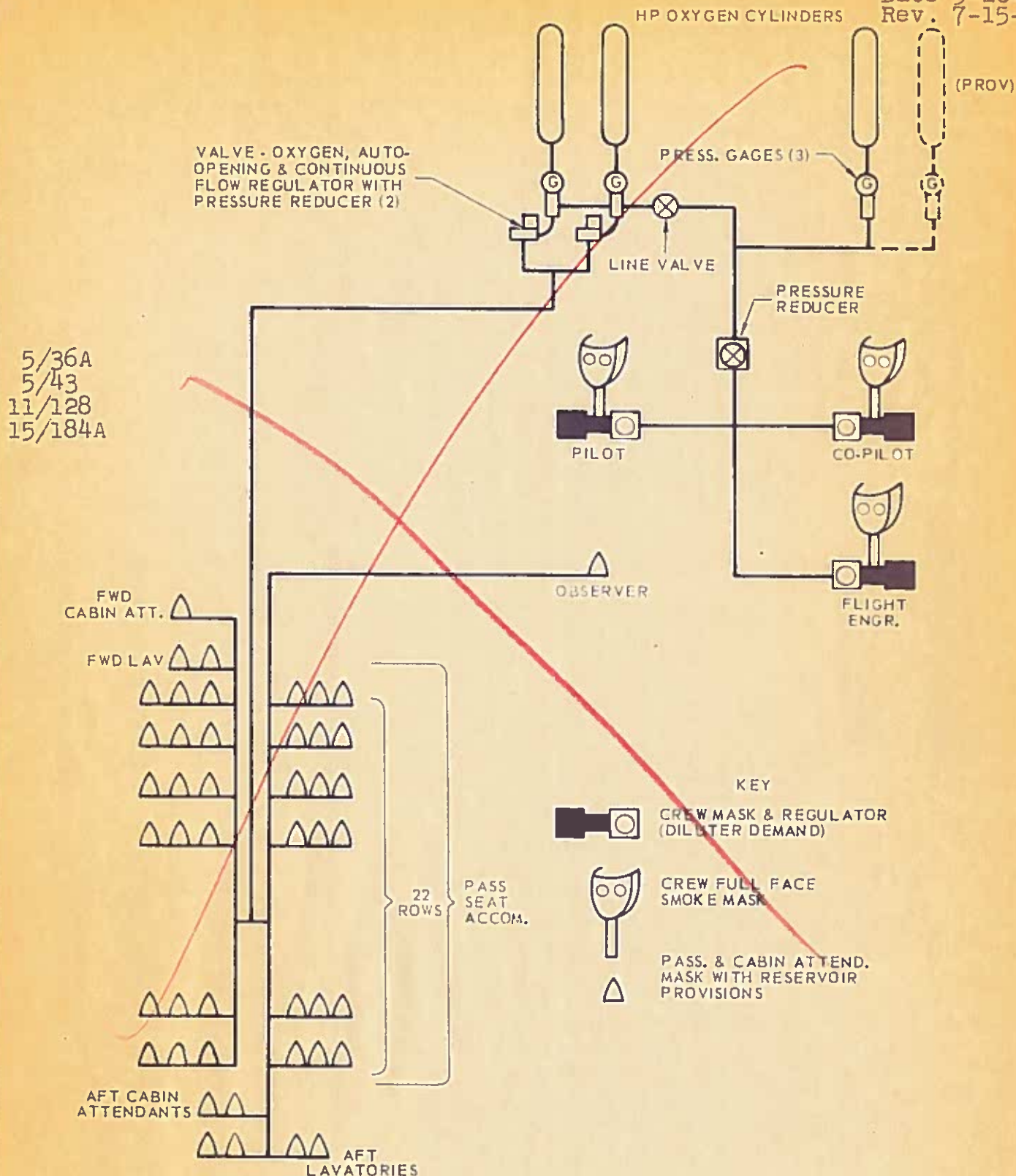


FIGURE 3.19-4

NOTE: Remove page 114a revised 7-15-59 and substitute this page 115D re-revised 7-15-59 in lieu of page 115D revised 11-15-57.

GASEOUS OXYGEN SYSTEM



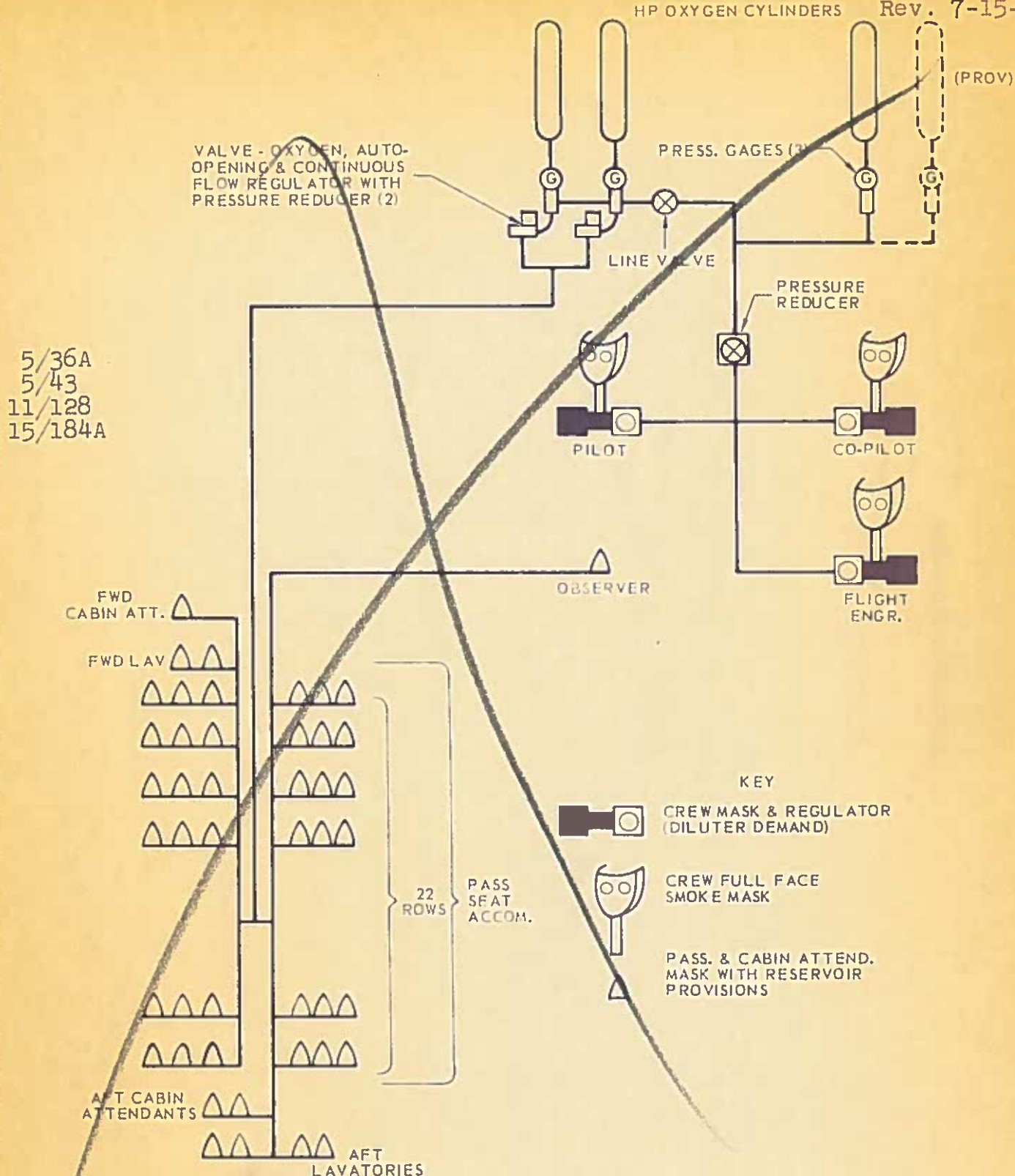


FIGURE 3.19-4

GASEOUS OXYGEN SYSTEM

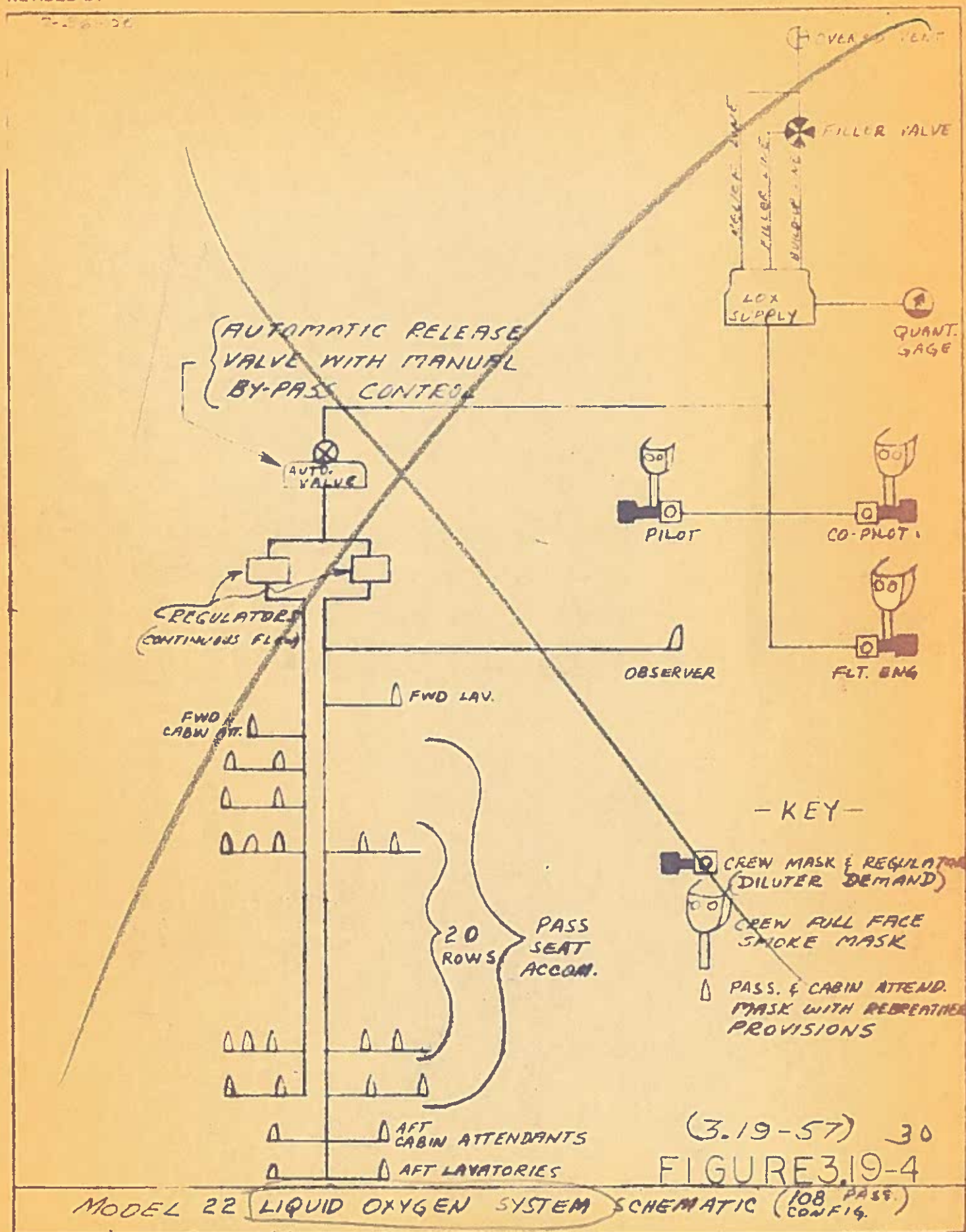


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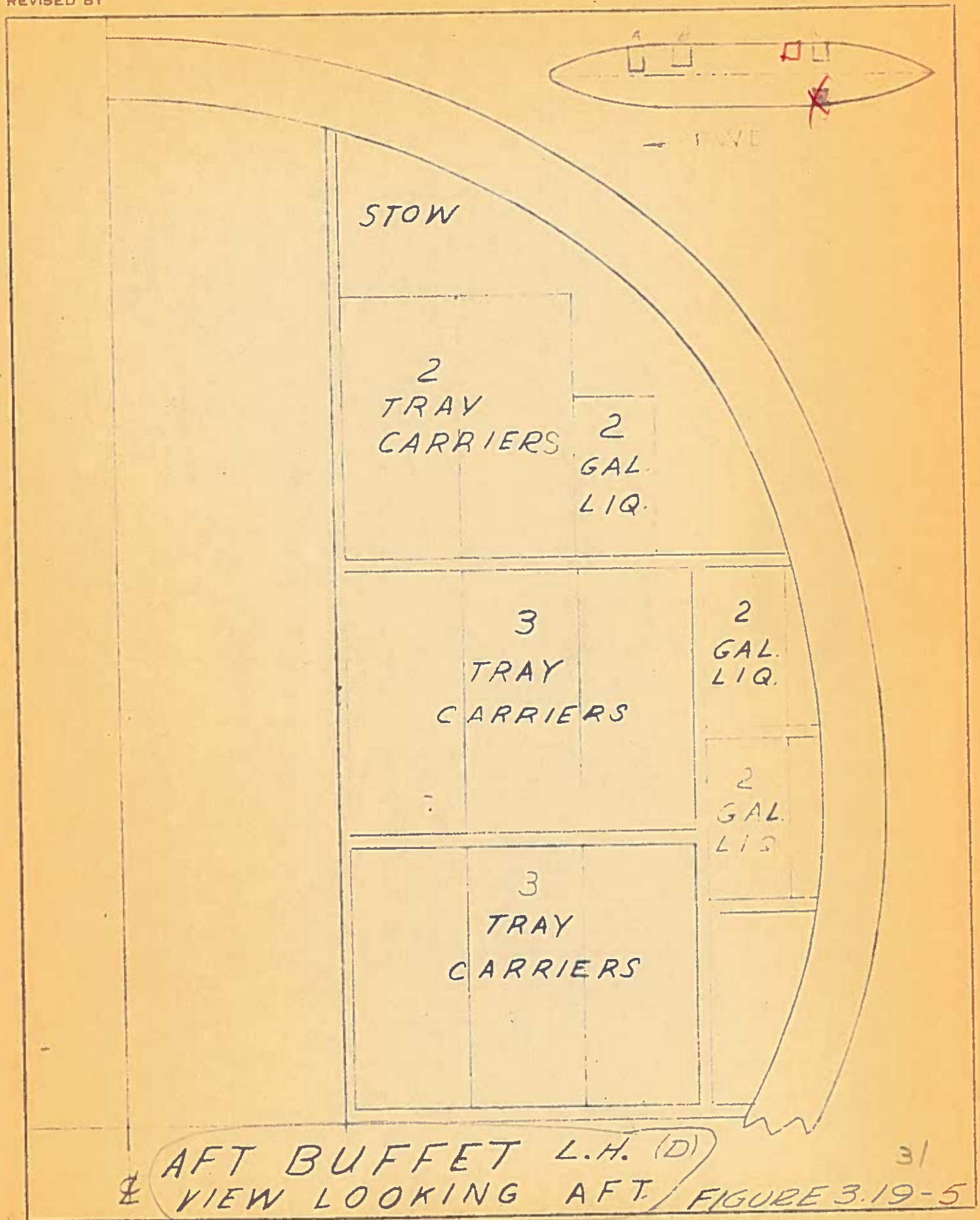
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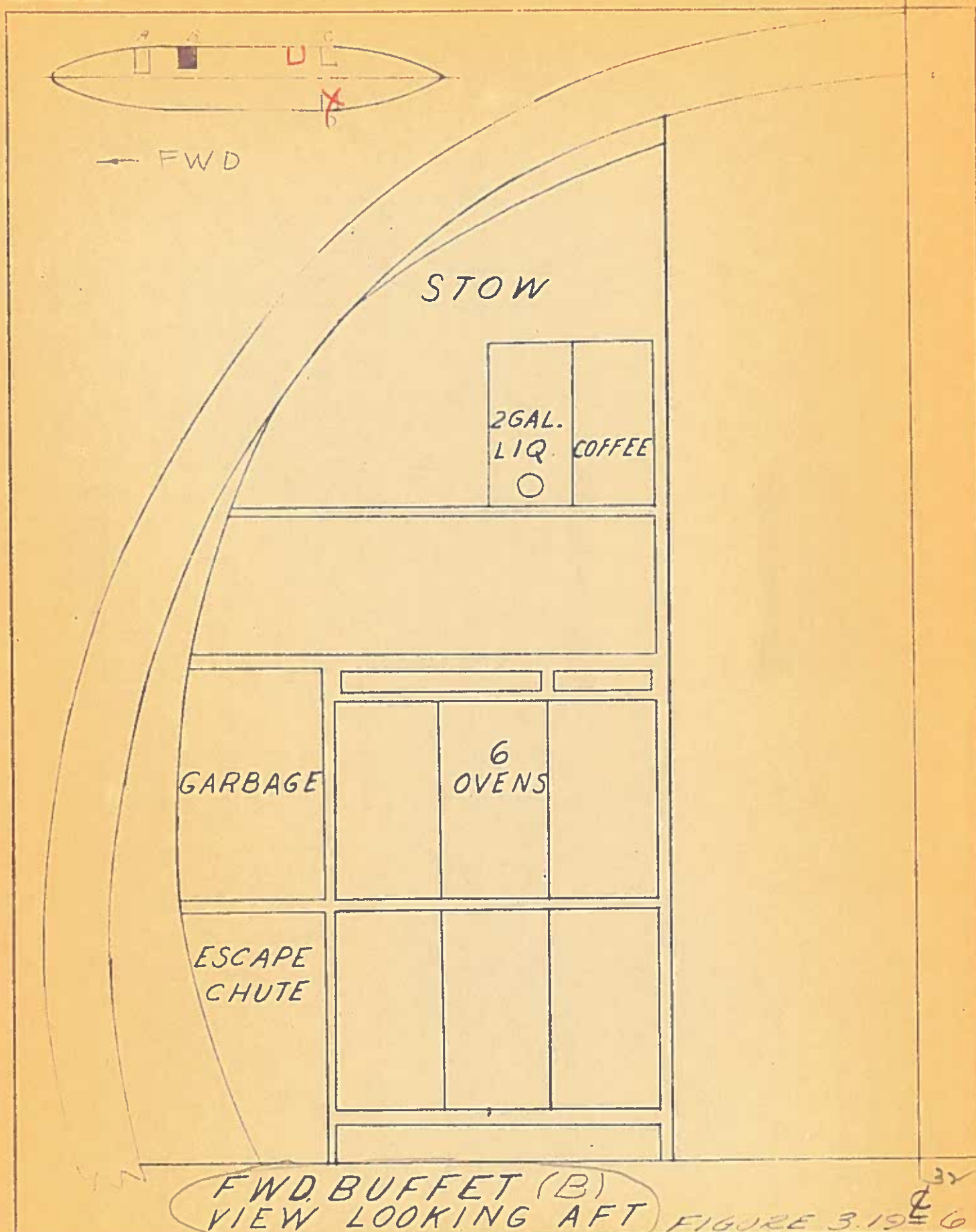




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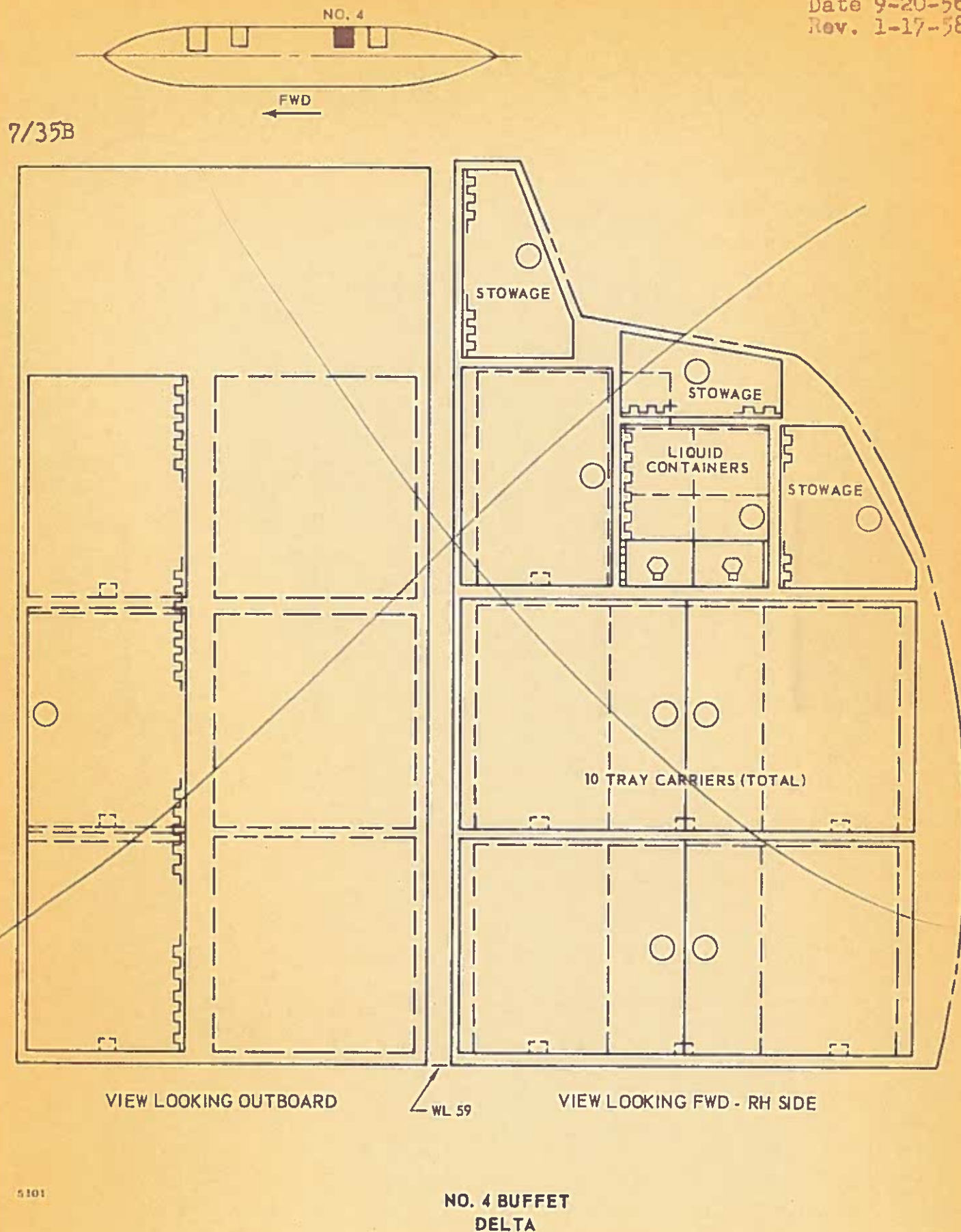
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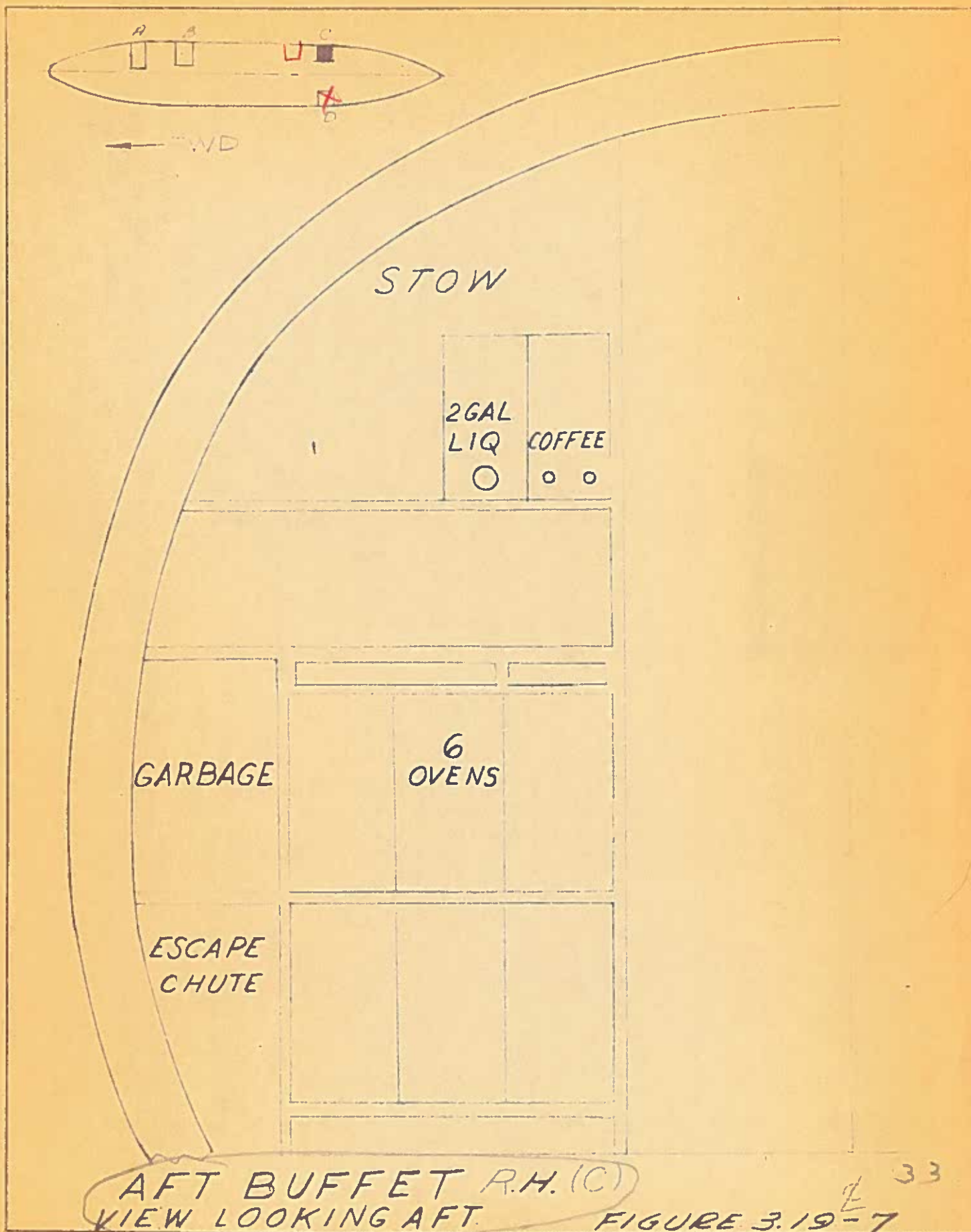
Figure 3.19-7



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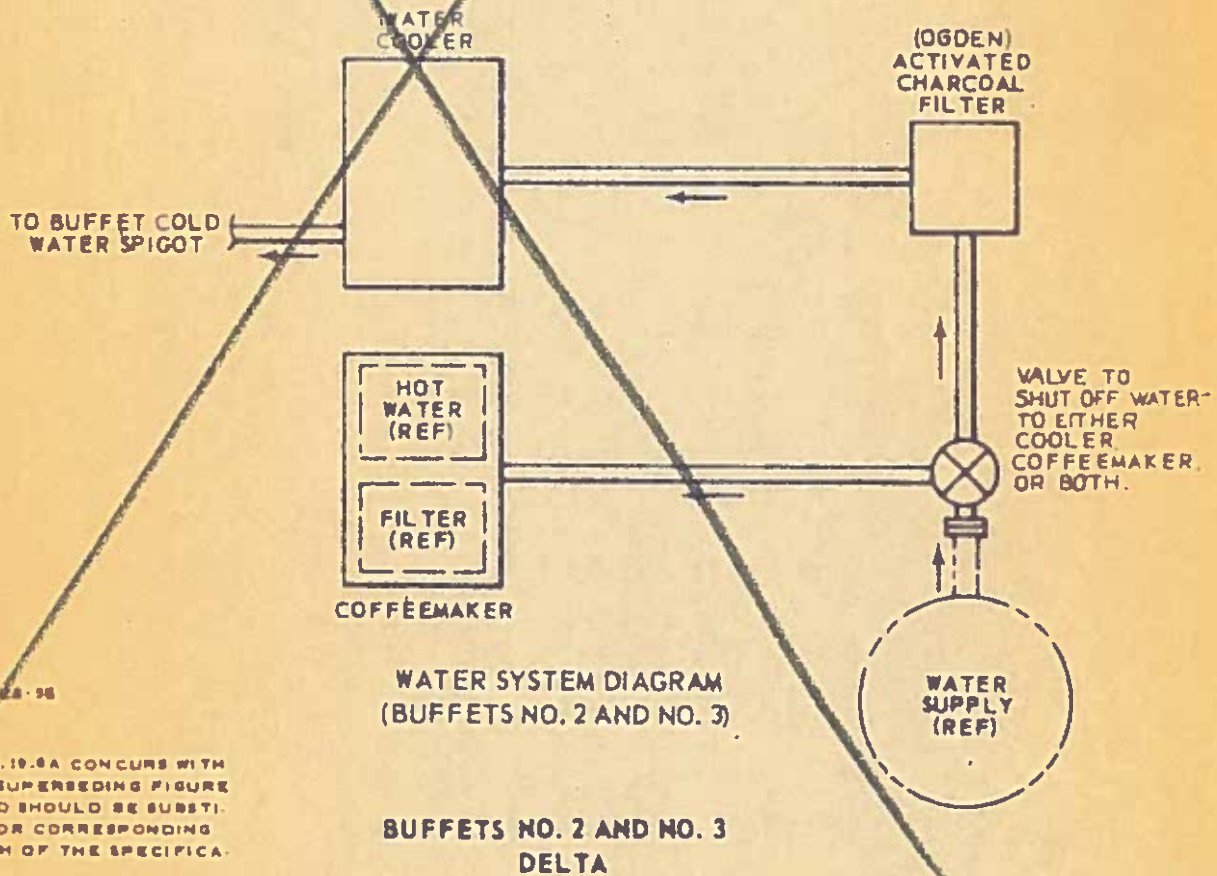
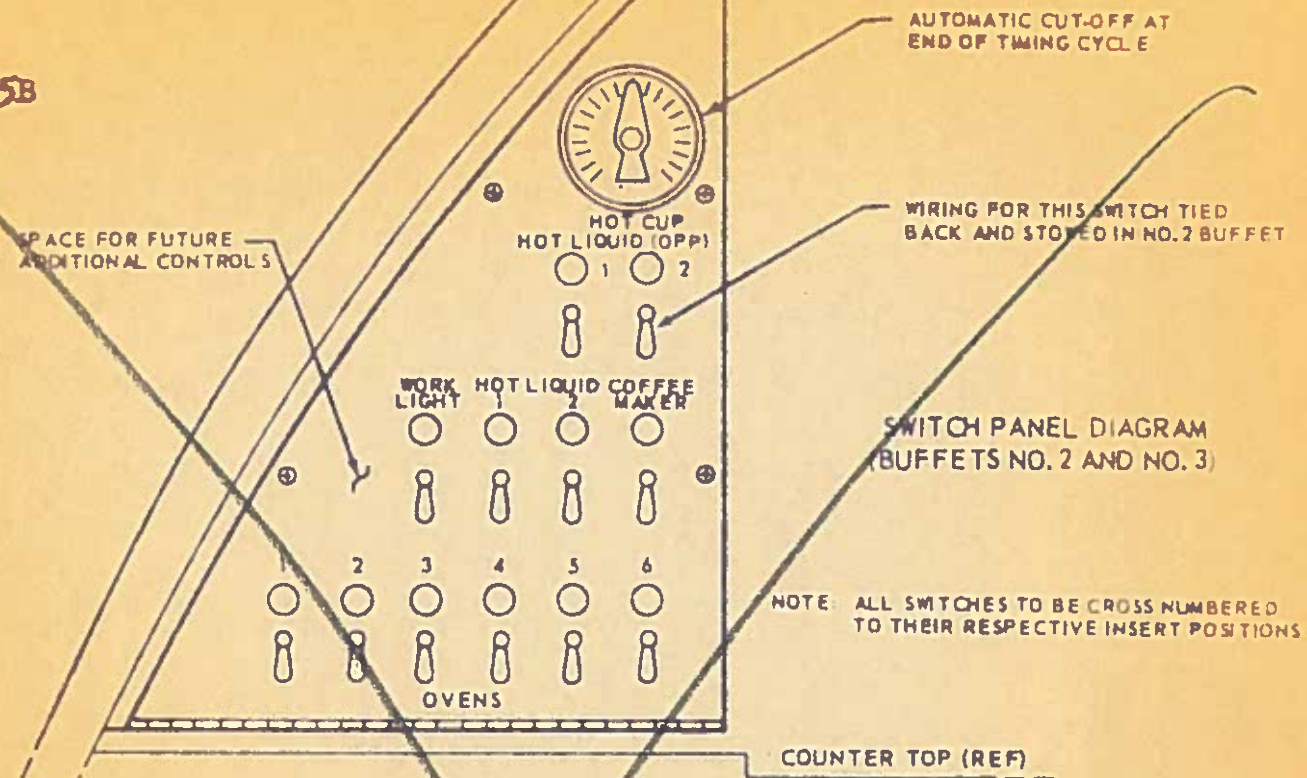


AFT BUFFET R.H. (C)  
VIEW LOOKING AFT.

FIGURE 3.19-7

33

7/35B



SOBBA 7-22-56

NOTE: FIGURE 3.19-6A CONCURS WITH CC-55B, SUPERSEDING FIGURE 3.19-6A AND SHOULD BE SUBSTITUTED FOR CORRESPONDING PAGE 115B OF THE SPECIFICATION.

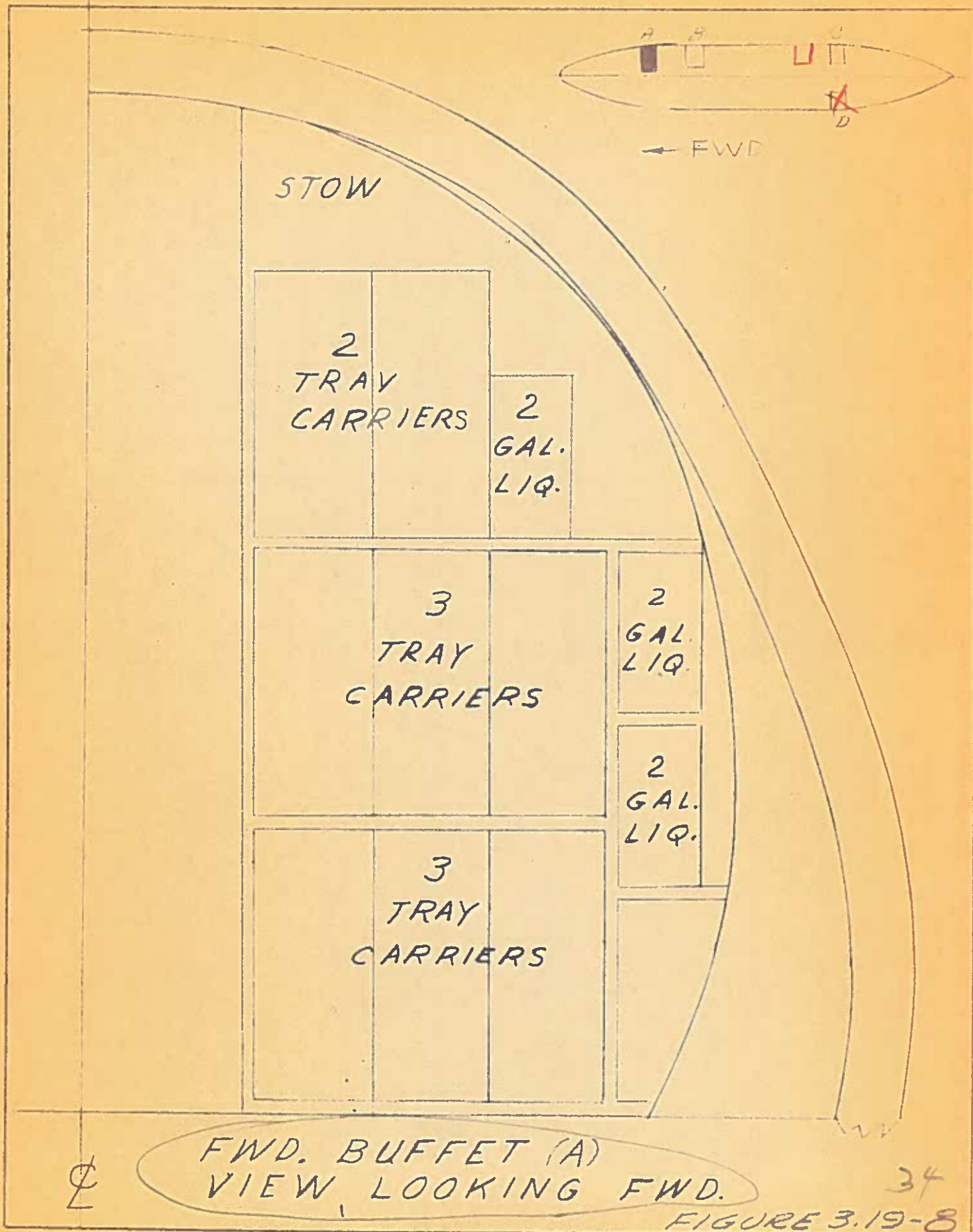
Figure 3.19-6A



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Rev. 10-15-58

3.20 AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:

3.20.1 AIR CONDITIONING:

3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.

50 3.20.1.2 AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of +3°F over the range of 65°F to 85°F. A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed to indicate the cabin (RH) and flight deck (LH) compressor airflows. The indicator shall be located on the flight deck. A bearing temperature indicator and a RPM indicator shall be installed on the flight deck for each turbocompressor.

119 Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

Switches shall be provided as follows:

- a. To open or close the supply air duct to each air conditioning system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- c. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment.



Rev. 11-15-57

3.20 AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:

3.20.1 AIR CONDITIONING:

3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.

60 3.20.1.2 AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of ±3°F over the range of 65°F to 85°F. A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed for each compressor duct; the sensing device shall be located in the fuselage.

Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

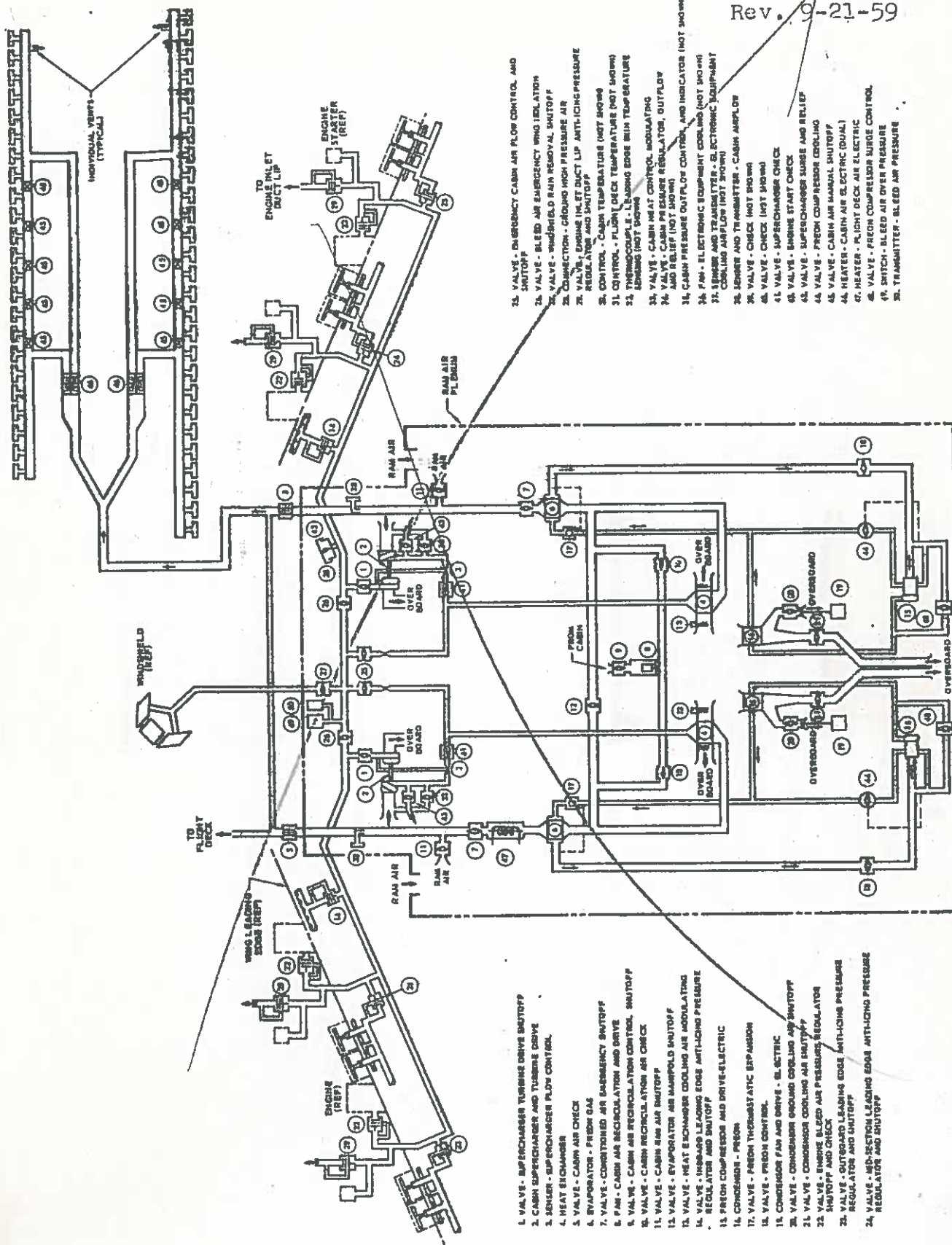
Switches shall be provided as follows:

- a. To open or close the supply air duct to each air conditioning system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- c. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment.



- 3.20 AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:
- 3.20.1 AIR CONDITIONING:
- 3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condensor and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.
- (3.20-11)
- (3.20-4)
- (3.20-43)
- 3.20.1.2 AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include override controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to  $2^{\circ}\text{F}$  with an accuracy of  $\pm 3^{\circ}\text{F}$  over the range of  $65^{\circ}\text{F}$  to  $85^{\circ}\text{F}$ . A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions.
- (3.20-5)
- (3.20-6)
- A dual airflow indicator shall be installed for each compressor duct; the sensing device shall be located in the fuselage. Dual indicator for each compressor to read inlet and outlet absolute pressures (inches of Hg).
- (3.20-9)
- Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.
- Switches shall be provided as follows:
- (3.20-8)
- To open or close the supply air duct to each air conditioning system.
  - To open or close the ram air ducts which supply unpressurized cabin air.
  - To open or close the bleed air from each individual engine.
  - To isolate the right from the left air conditioning equipment.





AIR CONDITIONING PRESSURIZATION SYSTEM

Rev. 7-18-61

3.20 AIR CONDITIONING, ANTI-ICING, AND PRESSURIZATION:

3.20.1 AIR CONDITIONING:

3.20.1.1 GENERAL: An air conditioning system shall provide for heating, cooling and ventilating the occupied compartments. The cooling system shall consist of two independent pneumatically-driven Freon systems, using bleed air as source of power. Each system shall include a pneumatic-driven Freon compressor, condenser and an evaporator packaged for installation as a unit. All major components shall be removable for maintenance and servicing with detail design attention given to access and maintenance. Removal and replacement time for the major components shall not exceed that noted in Appendix I-D, SAE ARP 85C or later shall be used as a guide for the Air Conditioning System, except as superseded by any of following specification paragraphs. Buyer shall participate in selection of the major components of the air conditioning and pressurization system.

3.20.1.2 AIR CONDITIONING CONTROLS: The air conditioning controls shall be grouped together on the flight deck and shall include over-ride controls, instruments and indicators permitting manual operation. A remote reading temperature indicator shall be provided for the main cabin which shall permit reading of temperatures to 2°F with an accuracy of +3°F over the range of 65°F to 85°F. A cabin rate-of-climb indicator, a sensitive cabin altimeter and a cabin differential pressure gage shall be provided to indicate the pressurization conditions. A dual airflow indicator shall be installed to indicate the cabin (RH) and flight deck (LH) compressor airflows. The indicator shall be located on the flight deck. A bearing temperature indicator and a RPM indicator shall be installed on the flight deck for each turbocompressor.

Controls and devices as required to warn and permit crew members to take necessary action in case of system malfunction.

Switches shall be provided as follows:

- a. To open or close the supply air duct to each air conditioning system.
- b. To open or close the ram air ducts which supply unpressurized cabin air.
- c. To open or close the bleed air from each individual engine.
- d. To isolate the right from the left air conditioning equipment.

\*Indication of the Freon compressor inlet and outlet temperature shall be provided by means of a dual-indicator and selector switch which shall provide for selection of "CABIN" or "FLIGHT DECK" Freon system indications.

\*Effective Ships 14 and on.



Rev. 7-10-61

3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

3.20.1.4.2 EXHAUST AIR: Air shall be exhausted from the lavatory and buffet compartments so that odors will not be admitted to the occupied areas.

3.20.1.4.3 WATER VAPOR: The system shall be designed such that suspended water vapor does not appear in the flight station or passenger compartments.

3.20.1.5 HEATING SYSTEM: The heating system during normal pressurized flight with a passenger and crew load of 20 persons shall be capable of maintaining in flight an average occupied compartment temperature of 75°F when the ambient static temperature is as low as -80°F. The system shall meet the requirement through all speed ranges of the aircraft.

3.20.1.6 COOLING SYSTEM: The cooling system, in normal pressurized flight, shall be capable of maintaining, in the occupied compartment, an average temperature of 75°F at an outside temperature of 40°F above NACA Standard with a 50 percent relative humidity during all flight conditions. The above performance shall be met with a total airplane occupancy of 115 persons. It shall be permissible to use partial recirculation in the tourist and mixed versions to meet above temperature requirements.

3.20.1.6.1 INSTRUMENT COOLING (Effective Ships 14 and on): Cooling provisions shall be installed as required to hold ambient temperature around pilot's and copilot's instrument panel mounted units to a maximum of 50°C.

3.20.1.7 AIR CLEANLINESS: All fresh air supplied to the occupied compartments shall be nontoxic and normally contain no contaminants of any kind as a result of having passed through the air conditioning system or any of the machinery or components included therein. Neither the normal nor auxiliary air inlets shall be located to permit the entry of any exhaust gas from any source under normal operating conditions. Each major component of the system shall be designed to preclude the introduction of contaminants into the ventilating airstream in the event of failure of that component. Provisions shall be made to isolate, with shutoff valves, any air conditioning equipment the failure of which could contaminate the occupied compartment.

- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.1.4.2 EXHAUST AIR: Air shall be exhausted from the lavatory and buffet compartments so that odors will not be admitted to the occupied areas.
- 3.20.1.4.3 (3.20-38) WATER VAPOR: The system shall be designed such that suspended water vapor does not appear in the flight station or passenger compartments.
- 3.20.1.5 (3.20-37) HEATING SYSTEM: The heating system during normal pressurized flight with a passenger and crew load of 20 persons, shall be capable of maintaining in flight an average occupied compartment temperature of 75°F when the ambient static temperature is as low as -80°F. The system shall meet the requirement through all speed ranges of the aircraft.
- 3.20.1.6 (3.20-36) COOLING SYSTEM: The cooling system, in normal pressurized flight, shall be capable of maintaining, in the occupied compartment, an average temperature of 75°F at an outside temperature of 40°F above NACA Standard with a 50 percent relative humidity during all flight conditions. The above performance shall be met with a total airplane occupancy of 115 persons. It shall be permissible to use partial recirculation in the tourist and mixed versions to meet the above temperature requirements.
- 3.20.1.7 (3.20-35) AIR CLEANLINESS: All fresh air supplied to the occupied compartments shall be nontoxic and normally contain no contaminants of any kind as a result of having passed through the air conditioning system or any of the machinery or components included therein. Neither the normal nor auxiliary air inlets shall be located to permit the entry of any exhaust gas from any source under normal operating conditions. Each major component of the system shall be designed to preclude the introduction of contaminants into the ventilating airstream in the event of failure of that component. Provisions shall be made to isolate, with shut-off valves, any air conditioning equipment the failure of which could contaminate the occupied compartment air.
- 3.20.1.8 (3.20-33) OCCUPIED COMPARTMENTS: Individual adjustable air outlets shall be installed as follows: One for each crew member excluding observer, one for each seat in the coach configuration, one for each lavatory and two in each buffet area.
- 3.20.1.8.1 (3.20-32) VENTILATION AIR OUTLETS: Outlets will be adjustable to modulate the quantity of air-flow. Leakage at the outlets when closed shall not exceed .2 cfm after 5000 cycles. The outlets shall not be the source of objectionable noise.



- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.1.8.2 (3.20-32) ADJUSTMENT LIMITS: Adjustment of direction will be limited to prevent the direction of air into adjacent seats.
- 3.20.1.9 (3.20-31) AIR DISTRIBUTION: The total fresh air supply to the occupied compartments shall be approximately 120 lb/minute at 35,000 feet flight altitude.
- 3.20.1.9.1 (3.20-40) FLIGHT STATION AIR: The flight station shall be supplied with approximately 10 percent of the total fresh air supply. The temperature and velocity gradients shall approximate those achieved by the cabin distribution system. The air velocity in the cockpit seating area shall not exceed 40 ft/min with all individually controlled outlets closed.
- (3.20-39) Cockpit air temperature variations between head and feet (one inch from floor) of any crew member in the normal seated position shall not be more than 5°F, with deviation subject to Buyer approval.
- 3.20.1.9.2 (3.20-30) FLOW RATE: The total air flow rate shall be sufficient to assure a complete replacement of cabin air approximately every 2-1/2 minutes at 35,000 feet. The above distribution shall be achieved with the individual vents closed.
- 3.20.1.10 TEMPERATURE CONTROL: An air temperature control system shall be installed to operate automatically under all flight conditions to supply the required proportions of heated or refrigerated air to maintain the occupied compartments in the selected temperature range. A separate flight compartment temperature control system shall be provided to control the flight compartment temperature independent of the passenger compartment temperature within the capacity of the system.
- 3.20.1.10.1 (3.20-D2) (3.20-29) TEMPERATURE SELECTOR: The air conditioning system shall operate automatically to supply conditioned air as required to maintain the temperature at the control sensing element under steady state conditions within  $\pm 2^\circ\text{F}$  of that selected. The control sensing element shall be located to sense a truly representative cabin temperature within the forward quarter of the main cabin. The temperature selector shall be graduated in ten increments. The automatic control system shall be rapid in response and critically damped.



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3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

4 3.20.2.1 ANTI-ICING OF NONTRANSPARENT AREAS: A heat anti-icing system shall be provided for anti-icing the leading edges of the wings by a bleed air supply from the main engine compressor. Leading edges of the empennage may be anti-iced by electric means. Adequate anti-icing of the radome shall be provided. Switches shall be provided for on-off control of the system. Temperature indicators shall be provided to indicate satisfactory operation of the anti-icing system. Overheat protection shall be provided for structure. The system ducts, duct joints and clamps shall be designed to provide protection against leakage and to permit servicing and inspection. Protective insulation shall be installed around the system ducts. Duct couplings shall also be insulated. Ice protection shall be provided for the engine induction system and engine inlet duct struts and lips. All important inlet scoops such as cabin inlet, fuel vents, oil coolers and the like shall have anti-icing provisions where required. The airplane anti-icing system shall be operative with any two propulsion engines inoperative. Operation of other airplane systems shall not render the anti-icing system ineffective. Required warning lights (push to test) shall be installed to give warning of anti-icing duct failures. Each light shall be operated by a continuous overheat detection system in order to sense bleed air duct leakage or failure.

3.20.2.2 IN-FLIGHT OPERATION: The aircraft with its anti-icing system operative shall be capable of being dispatched into or through maximum continuous icing conditions as defined by CAR 4b 640.

3.20.2.3 GROUND OPERATION: The system components shall be operable on the ground for maintenance and inspection. The system shall be completely operative and heat shall be available to the leading edges at the instant the airplane is airborne.

3.20.2.4 ANTI-ICING, DEFROSTING AND DEFOGGING OF TRANSPARENT AREAS: Electrically heated glass of the conductive film type shall be provided for anti-icing and anti-fogging the pilot's and co-pilot's windshields. Electrically heated glass of the conductive film type shall be provided for defogging the pilot's and co-pilot's side windows. Temperature sensing elements shall be installed in the pilot's and copilot's windshield and side windows to provide temperature control. The windshield anti-icing system design shall be such that electrical or control system failure of one panel shall not affect the anti-icing ability of the other two panels. The flight deck side window defog system design shall be such that electrical or control system failure of one panel shall not affect the defog ability of more than one other side panel. Electric power for anti-icing the pilot's and copilot's windshield shall be considered as essential power.



- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.1 ANTI-ICING OF NONTRANSPARENT AREAS: A heat anti-icing system shall be provided for anti-icing the leading edges of the wings by a bleed air supply from the main engine compressor. Leading edges of the empennage may be anti-iced by electrical means. Adequate anti-icing of the radome shall be provided. Switches shall be provided for on-off control of the system. Temperature indicators shall be provided to indicate satisfactory operation of the anti-icing system. Overheat protection shall be provided for structure. The system ducts, duct joints and clamps shall be designed to provide protection against leakage and to permit servicing and inspection. Protective insulation shall be installed around the system ducts. Duct couplings shall also be insulated. Ice protection shall be provided for the engine induction system and engine inlet duct struts and lips. All important inlet scoops such as cabin inlet, fuel vents, oil coolers and the like shall have anti-icing provisions where required. The airplane anti-icing system shall be operative with any two propulsion engines inoperative. Operation of other airplane systems shall not render the anti-icing system ineffective. Required warning lights (push to test) shall be installed to give warning of anti-icing duct failures. Each light shall be connected to differential switches in the ducting in order to sense failure or leakage.
- (3.17-D10)
- (3.20-3)
- (3.20-D3)
- (3.20-21)
- (3.14-D8)
- 3.20.2.2 IN-FLIGHT OPERATION: The aircraft with its anti-icing system operative shall be capable of being dispatched into or through maximum continuous icing conditions as defined by CAR 4b 640.
- 3.20.2.3 GROUND OPERATION: The system components shall be operable on the ground for maintenance and inspection. The system shall be completely operative and heat shall be available to the leading edges at the instant the airplane is airborne.
- 3.20.2.4 ANTI-ICING, DEFROSTING AND DEFOGGING OF TRANSPARENT AREAS: Electrically heated glass of the conductive film type shall be provided for anti-icing and anti-fogging the pilot's and co-pilot's windshields. Electrically heated glass of the conductive film type shall be provided for defogging the pilot's and co-pilot's side windows. Temperature sensing elements shall be installed in the pilot's and co-pilot's windshield and side windows to provide temperature control. The windshield anti-icing system design shall be such that electrical or control system failure of one panel shall not affect the anti-icing ability of the other two panels. The flight deck side window defog system design shall be such that electrical or control system failure of one panel shall not affect the defog ability of more than one other side panel. Electric power for anti-icing the pilot's and co-pilot's windshield shall be considered as essential power.



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3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

43 3.20.2.5 ICE DETECTOR SYSTEM: An ice-detector system shall be installed with warning lights in the pilot compartment. Two detector units shall be installed; one in the No. 1 pod and one in the No. 3 pod. Automatic control of the airplane anti-icing system shall be provided; operated by either of the ice detector units. Provisions shall be made for the installation of one ice detector unit in No. 2 pod and one in No. 4 pod.

3.20.3 PRESSURIZATION:

3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.3 psi  $\pm$  .1 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.3 psi  $\pm$  .1 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cabin altitude warning. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.

3.20.3.1.1 AIR FILTERS: All pneumatic control chambers shall be supplied filtered air.

3.20.3.2 RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.6 psi.

3.20.3.3 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting preselection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude preselection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during takeoff and landing shall not exceed the selected schedule rate by more than 150 feet per minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet per minute. Transition from (Cont)



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### 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

243 3.20.2.5 ICE DETECTOR SYSTEM: An ice-detector system shall be installed with warning lights in the pilot compartment. Two detector units shall be installed; one in the No. 1 pod and one in the No. 3 pod. Automatic control of the airplane anti-icing system shall be provided; operated by either of the ice detector units. Provisions shall be made for the installation of one ice detector unit in No. 2 pod and one in No. 4 pod.

### 3.20.3 PRESSURIZATION:

188 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cabin altitude warning. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.

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3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

3.20.2.5 ICE -DETECTOR SYSTEM: An ice-detector shall be installed in each engine inlet duct with warning lights in the pilots' compartment and providing automatic control of the engine inlet duct anti-icing system.

3.20.3 PRESSURIZATION:

188 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. An indicator light shall be provided on the flight engineer's panel to indicate cabin altitude warning. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.

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3.20.3.2 RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.6 psi.

3.20.3.3 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting preselection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude preselection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during takeoff and landing shall not exceed the selected schedule rate by more than 150 feet per minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet per minute. Transition from



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- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.5 ICE-DETECTOR SYSTEM: An ice-detector shall be installed in each engine inlet duct with warning lights in the pilots' compartment and providing automatic control of the engine inlet duct anti-icing system.
- 3.20.3 PRESSURIZATION:
- 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.
- 3.20.3.1.1 AIR FILTERS: All pneumatic control chambers shall be supplied filtered air.
- 3.20.3.2 RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.6 psi.
- 3.20.3.3 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 3,000 feet and with normal cabin airflow. Pressure surges during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from



Rev. 11-15-57

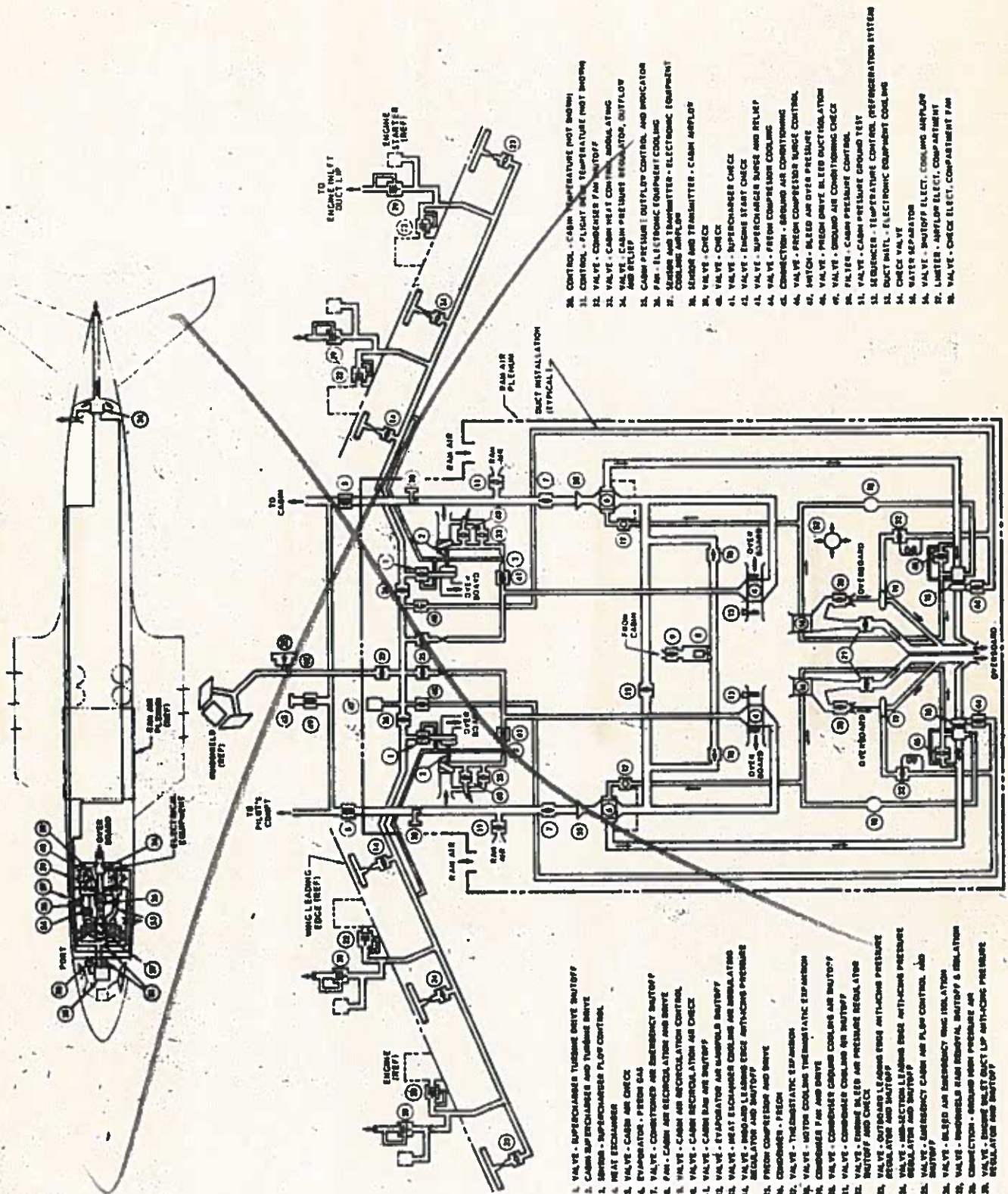
- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.5 ICE-DETECTOR SYSTEM: An ice-detector shall be installed in each engine inlet duct with warning lights in the pilots' compartment and providing automatic control of the engine inlet duct anti-icing system.
- 3.20.3 PRESSURIZATION:
- 9 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be designed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.6 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.
- 3.20.3.1.1 AIR FILTERS: All pneumatic control chambers shall be supplied filtered air.
- 3.20.3.2 RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.2 psi.
- 3.20.3.3 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from



- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.2.5 ICE-DETECTOR SYSTEM: An ice-detector shall be installed  
(3.20-19) in each engine inlet duct with warning lights in the pilots' compartment and providing automatic control of the engine inlet duct anti-icing system.
- 3.20.3 PRESSURIZATION:
- 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE: The aircraft shall be de-  
(3.20-41) signed and equipped to be pressurized. The maximum normal differential operating pressure shall be 8.2 psi. At least two separate and independent compressors for supplying pressurized air shall be provided to maintain the normal differential operating pressure. Loss of any single source of pressurized air shall not prevent maintaining cabin differential pressure at 8.2 psi with the airplane at 35,000 feet, with any two engines at cruise power. Engine management shall not affect overall air conditioning system performance in any normal flight regime including descent, approach and landing. It shall be possible to operate the thermal anti-icing system without creating fluctuations in cabin pressure under any icing conditions.
- (3.20-18)
- 3.20.3.1.1 AIR FILTERS: All pneumatic control chambers shall be  
(3.20-15) supplied filtered air.
- 3.20.3.2 RELIEF VALVE SETTING: The maximum occupied compartment air relief valve setting shall be 8.2 psi.
- 3.20.3.3 PRESSURE CONTROLS: The cabin pressure shall be automatically regulated and controls and instrumentation shall be provided on the flight deck permitting pre-selection of cabin rates of pressure change and cabin pressure altitude. The cabin altitude pre-selection shall be accurate within 200 feet at altitudes below 5,000 feet and with normal cabin airflow. Pressure surges during take-off and landing shall not exceed the selected schedule rate by more than 150 ft/minute. During operation with an automatically regulated change in cabin pressure altitude, deviations from the steady rate of change shall not exceed 50 feet/minute. Transition from
- (3.20-16)



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 3-84  
 2/119  
 253



AIR CONDITIONING PRESSURIZATION SYSTEM

FIGURE 3.20-1



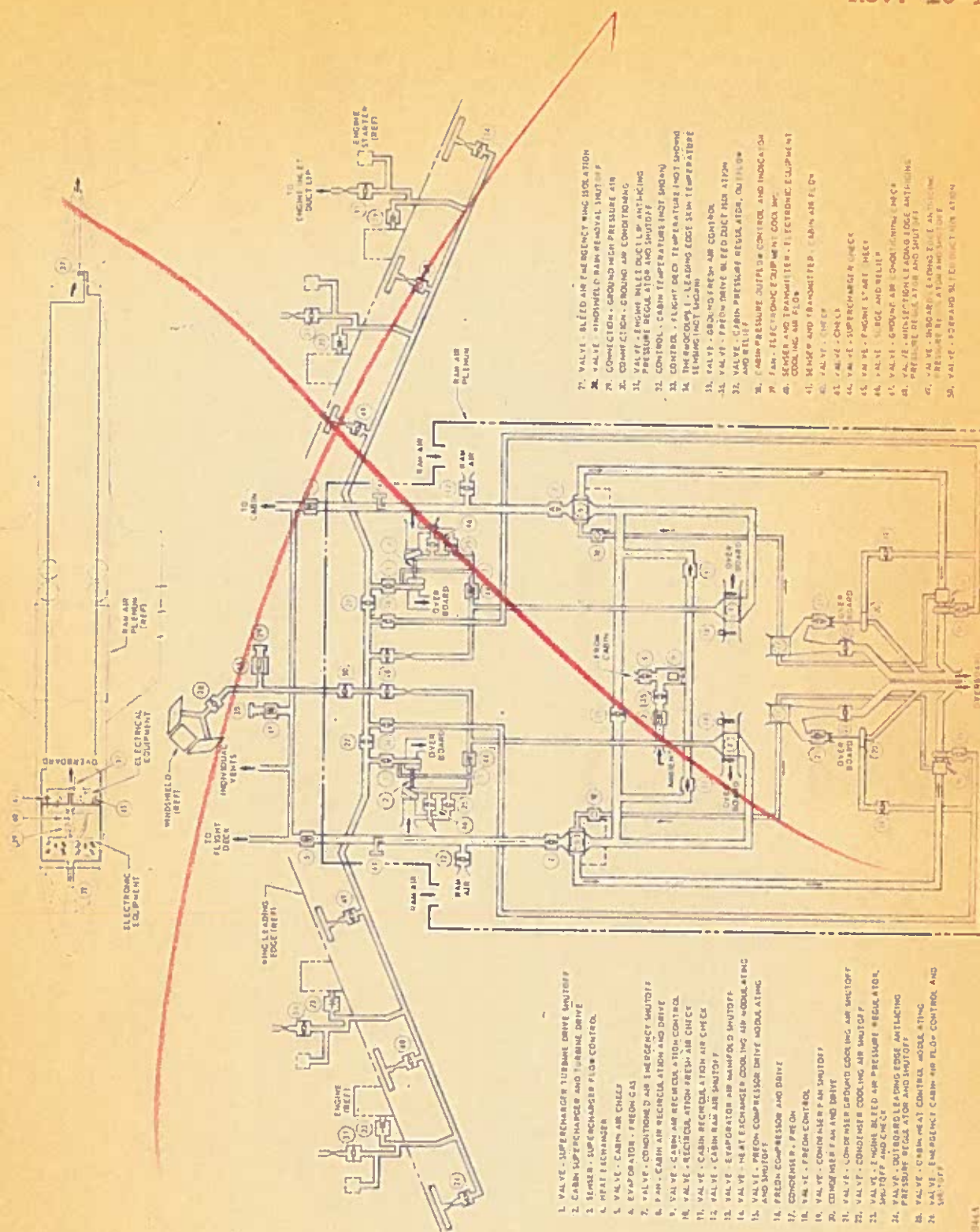
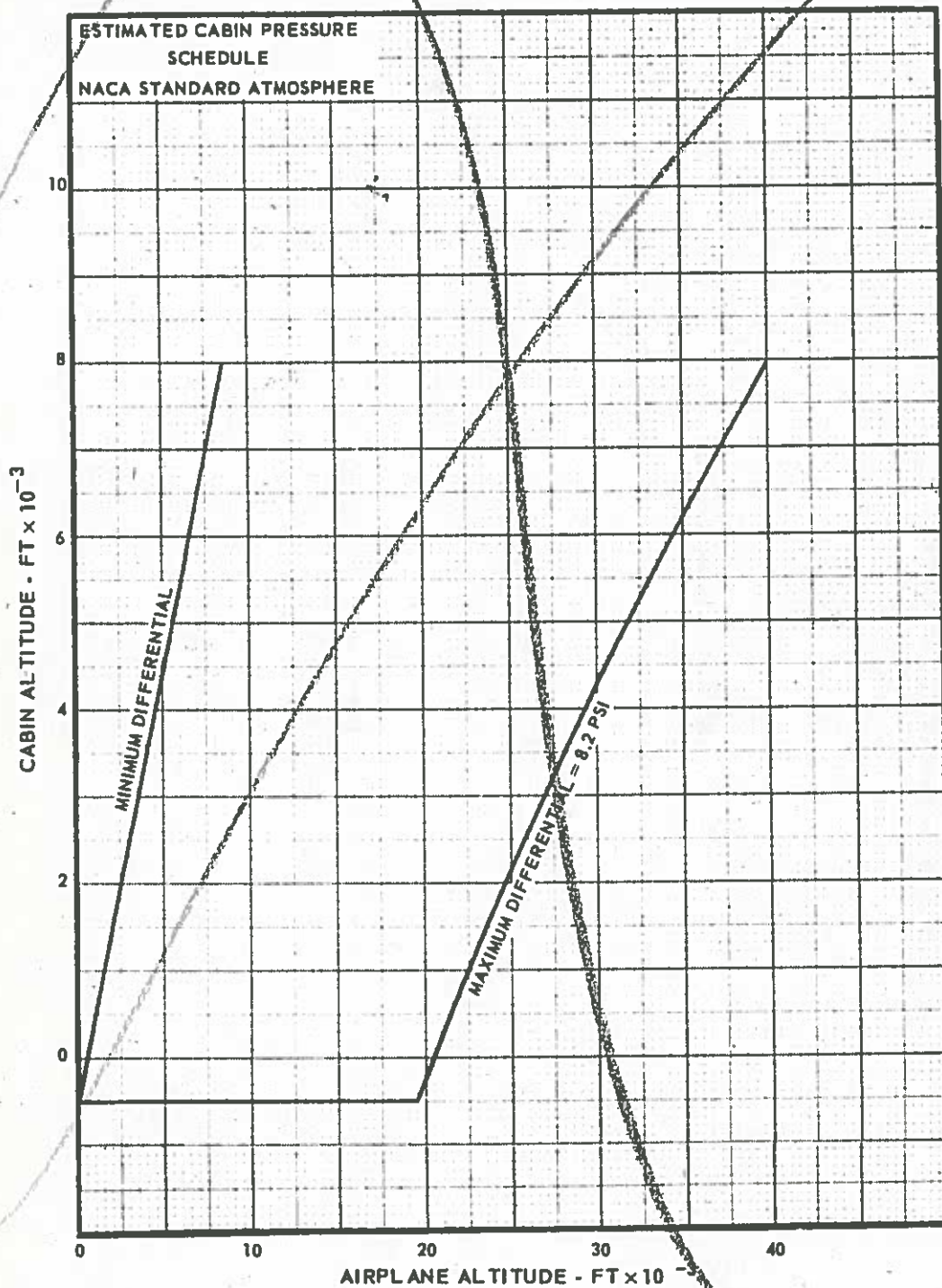


FIGURE 3.20-1







ESTIMATED CABIN PRESSURE SCHEDULE

FIGURE 3.20-2



20 22 005  
122 B

880  
ESTIMATED CABIN PRESSURE  
SCHEDULE  
NACA STANDARD ATMOSPHERE

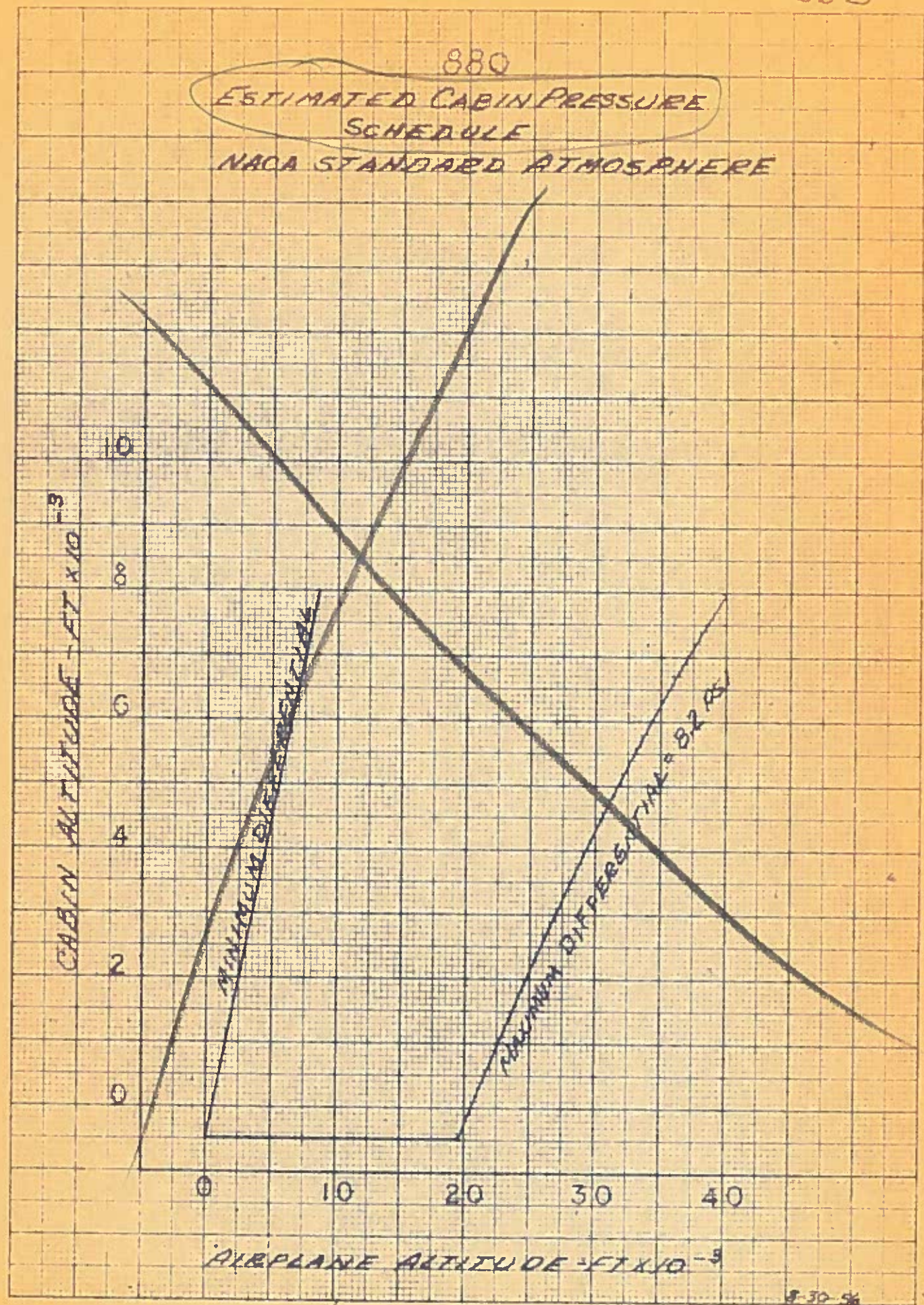
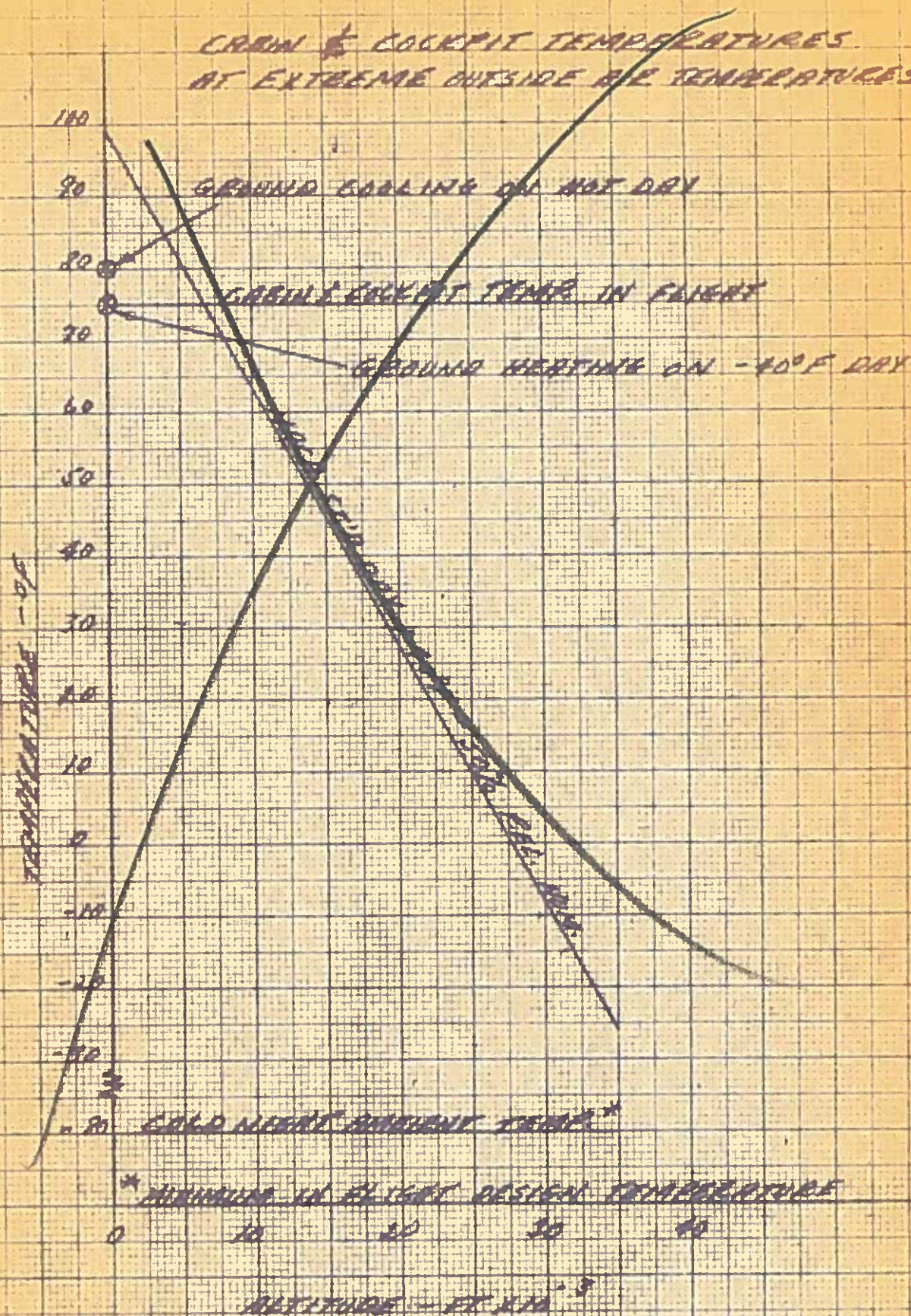


FIGURE 3.20-2



280  
TEMPERATURE VS ALTITUDE

CROWN & COCKPIT TEMPERATURES  
AT EXTREME OUTSIDE AIR TEMPERATURES

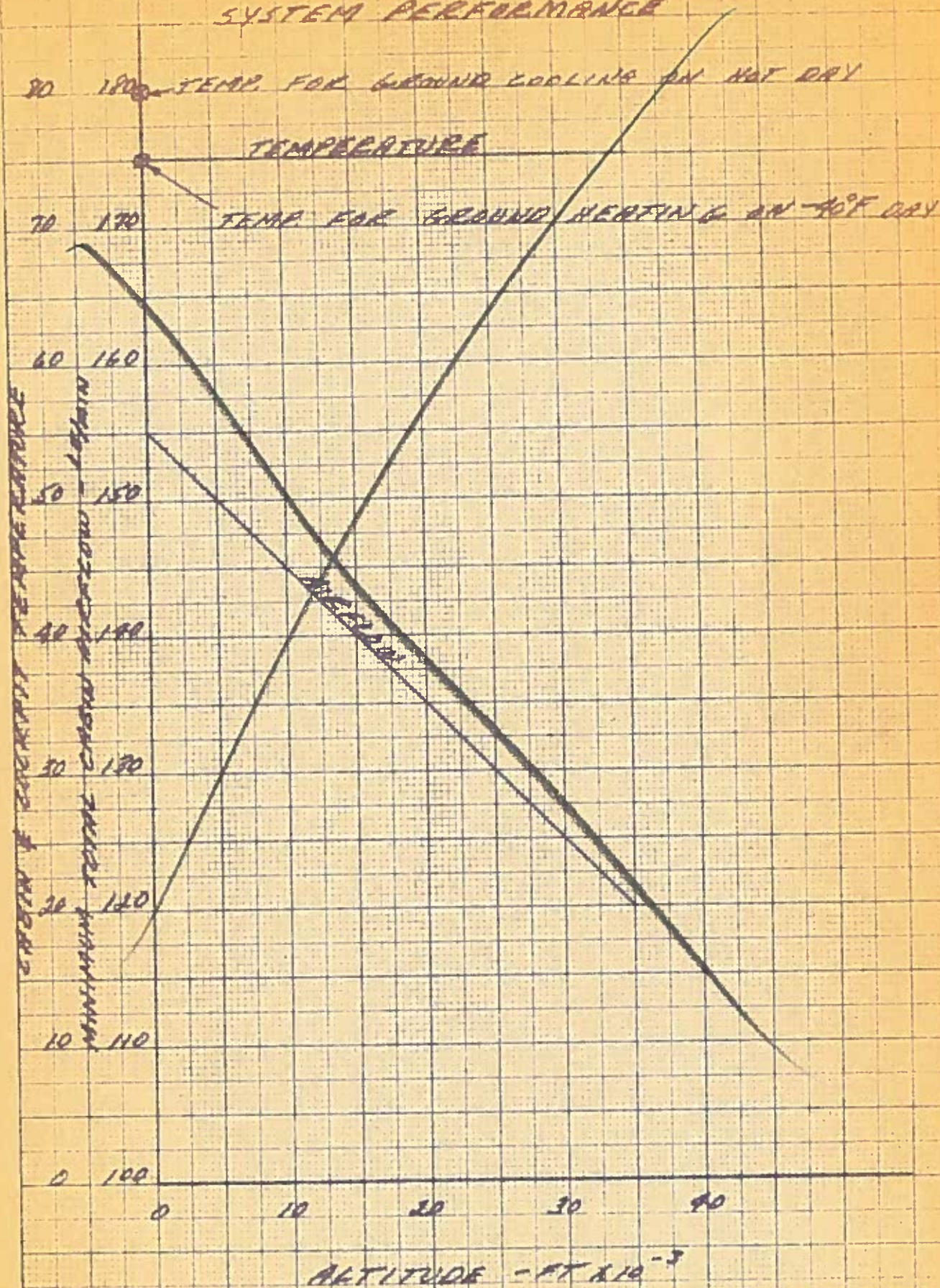


2.5.11. 9-22-56

FIGURE 3.20-3



# 800 - CABIN AIR CONDITIONING SYSTEM PERFORMANCE



B.E.H. 7-24-58

X FIGURE 3.2



3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)

3.20.3.3 automatically regulated rate of change to steady regulated cabin pressure altitude or the reverse shall not cause deviations from the desired nominal values larger than 100 feet per minute. Controls shall be provided on the flight deck permitting manual control, shutting off, and selection of the pressurizing air sources. Means shall be provided to automatically release cabin pressure on the ground; also an override will be provided to test cabin pressurization on the ground. On the ground, with full compressor output, maximum differential pressure will be less than .3 Hg with .2 Hg as a design objective.

(3.20-17

3.20.3.4 OPERATION: The aircraft and its air distribution systems shall be suitable for either pressurized or unpressurized operation.

3.20.3.5 DUCTING: Air conditioning system ducting external to the pressurized fuselage area and all bleed air ducting shall have structural integrity of the same degree as basic air-frame structure. This ducting shall be designed so that incorrect installation which could lead to failure is extremely improbable. Means shall be provided to minimize noise originating in the air flow duct system.

3.21 PHOTOGRAPHIC: Not required.

3.22 AUXILIARY GEAR:

3.22.1 TOWING PROVISIONS: Provisions shall be made for towing and pushing the airplane from the nose gear by means of a removable tow bar. Towing lugs shall be provided on the main landing gear to permit towing forward and backward by means of ropes or cables.

3.22.2 JACKING PROVISIONS: All external wing and fuselage jack pads shall be removable. Means shall be provided for supporting the airplane to preserve level attitude during overhaul operations. Jacking points on the wing and fuselage shall be so located as to permit the landing gear to be fully extended and retracted and to permit removal or installation of wheels, brakes, or complete gear with the airplane resting on the jacks. Jack points shall be provided under each nose and main landing gear shock strut, to permit a flat tire or wheel to be changed with the airplane resting on the jack. Extent of jacking provisions shall be designed to an ultimate load factor of two, those on the wing and fuselage for a maximum reaction of maximum landing weight, and those on the landing gear for a maximum taxi weight. External fuselage and wing jack pads shall incorporate an AAP Type fitting, on mating surface to ground jack assembly.



- 3.20 AIR CONDITIONING, ANTI-ICING AND PRESSURIZATION (Cont)
- 3.20.3.3 (Cont) automatically regulated rate of change to steady regulated cabin pressure altitude or the reverse shall not cause deviations from the desired nominal values larger than 100 feet per minute. Controls shall be provided on the flight deck permitting manual control, shutting off, and selection of the pressurizing air sources. Means shall be provided to automatically release cabin pressure on the ground; also an override will be provided to test cabin pressurization on the ground. On the ground, with full compressor output, maximum differential pressure will be 2" Hg.
- (3.20-17)
- 3.20.3.4 OPERATION: The aircraft and its air distribution systems shall be suitable for either pressurized or unpressurized operation.
- 3.20.3.5 DUCTING: Air conditioning system ducting external to the pressurized fuselage area and all bleed air ducting shall have structural integrity of the same degree as basic air-frame structure. This ducting shall be designed so that incorrect installation which could lead to failure is extremely improbable. Means shall be provided to minimize noise originating in the air flow duct system.
- (3.20-14)  
(3.20-12)
- 3.21 PHOTOGRAPHIC: Not required.
- 3.22 AUXILIARY GEAR:
- 3.22.1 TOWING PROVISIONS: Provisions shall be made for towing and pushing the airplane from the nose gear by means of a removable tow bar. Towing lugs shall be provided on the main landing gear to permit towing forward and backward by means of ropes or cables.
- (3.22-4)
- 3.22.2 JACKING PROVISIONS: All external wing and fuselage jack pads shall be removable. Means shall be provided for supporting the airplane to preserve level attitude during overhaul operations. Jacking points on the wing and fuselage shall be so located as to permit the landing gear to be fully extended and retracted and to permit removal or installation of wheels, brakes, or complete gear with the airplane resting on the jacks. Jack points shall be provided under each nose and main landing gear shock strut, to permit a flat tire or wheel to be changed with the airplane resting on the jack. Extent of jacking provisions shall be designed to an ultimate load factor of two, those on the wing and fuselage for a maximum reaction of maximum landing weight, and those on the landing gear for a maximum taxi weight. External fuselage and wing jack pads shall incorporate an AAF Type fitting, on mating surface to ground jack assembly.



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3.23

INTERCHANGEABILITY - REPLACEABILITY (Cont)

a. Interchangeable Parts (Cont)

Elevators  
Rudders  
Tabs  
Horizontal Stabilizer Tip Caps  
Vertical Stabilizer Tip Caps  
Complete Landing Gears  
Wheels, Brakes, Tires, Tubes and Anti-Skid Devices  
Lavatory Mirrors  
Cabin Floor Rugs  
Crew and Passenger Seat and Back Cushions  
and Arm Rest Covers  
Flap  
Spoilers  
Landing Gear Door Mechanism  
Horizontal Stabilizer R/H  
Horizontal Stabilizer L/H  
\*Horizontal Stabilizer Center Section  
Wing Anti-shock Bodies, Fairing Sections aft of  
Fuel bulkhead (in like positions on airplane)  
Pod doors  
Pod Replaceable Aft Fairing  
Bullet Nose (Engine Hub Fairing)  
QEC Plumbing and Drain Lines  
Flight Engineer's and Third Pilot's Seat Base  
Flight Engineer's and Third Pilot's Seat Assembly

b. Replaceable Parts:

Nose Landing Gear Doors  
Main Landing Gear Doors  
Fuselage Entrance Doors  
Fuselage Service Doors  
Cargo Doors  
Sheet Metal Control Horns, Masts and Brackets  
Wing Leading Edge  
Fairings  
Minor Access and Inspection Doors  
Floor Panels  
Access Panels  
Vertical Stabilizer, Complete Assembly  
Sealing Blades, Stabilizer to Fuselage  
Wing Anti-Shock Bodies, Forward Fuel-Carrying  
Sections (In line positions on airplane)

NOTE: Flight engineer's seat or third pilot's seat may be reassembled from the other by fastening the seat assembly and a common seat base at the alternate rotation point

\* Horizontal stabilizer center section shall be interchangeable, however some body structure in local areas must be removed in order to replace this assembly. For this reason, demonstration of interchangeability is waived on this item.

3.22 AUXILIARY GEAR:

3.22.3 MOORING PROVISIONS: Flush type mooring attachments shall  
(3.22-5) be provided. Provisions for mooring on the landing gear struts shall be confined to the tow lugs.

3.22.4 HOISTING PROVISIONS: Provisions shall be made for hoisting  
(3.22-3) into position or handling of assemblies or components weighing more than 150 lb and the individual major assemblies of the airplane with the exception of the fuselage. Provisions and procedures shall be provided for emergency hoisting the entire aircraft up to maximum landing weight. The provisions are to be provided reasonably close to the fuselage in the wing area and near the nose section of the fuselage. The procedure shall be included in the maintenance manual. Three sets of equipment shall be furnished as loose equipment with the first airplane delivery. Provisions for hoisting the entire airplane not required.

3.22.5 LEVELING PROVISIONS: External leveling points shall be provided for leveling the airplane laterally and longitudinally. In addition, provisions shall be made for leveling the airplane laterally and longitudinally by means of a plumb bob suspended inside the fuselage. An engraved plate shall be located on the floor and shall be calibrated to indicate correct jacking required to level the airplane, when used with the plumb bob.

3.23 DEFINITIONS:

(3.23-3) 1. Interchangeable Parts: Interchangeable assemblies and parts are those which are capable of being installed, removed, or replaced from one airplane to another without fitting other than minor trim and bumping.



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3.23 DEFINITIONS (Cont)

- 3.23
2. Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.
  3. Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, seals and strikers but which may require trim and minor fitting when interchanged.
  4. Inherently Interchangeable Parts: (Example Control Cables - Door Latches, etc.)
  5. Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.

3.23.1 EQUIPMENT INTERCHANGEABILITY:

1. Interchangeable Parts:
  - Fuel Tank Access Doors
  - Wing Tips
  - Buffet Sections
  - Emergency Exit Panel Assembly
  - Engine Tail Cowl
  - Instrument Panels
  - Engine Nose Cowl
  - Horizontal Stabilizer, Leading Edge
  - Vertical Stabilizer, Leading Edge
  - \*Horizontal Stabilizer, Complete Assembly
  - Sealing Blades, Stabilizer to Fuselage
2. Interchangeable Without Alterations:
  - Pilots, Copilots and Flight Engineer Seat Assembly
  - \*\*Passenger Seat Assembly LH and RH
  - Control Column Assembly
  - Rudder Pedal Assembly
  - Control Horns forgings or castings where attached by bolts
  - Engine (quick change)
  - Nose Radome
  - Pilot's Enclosure Glass
  - Cabin Windows
  - Observer's Seat Assembly
  - Cabin Floor Covering

\*Complete stabilizer assembly interchangeable airplane to airplane by disassembly of halves at the airplane centerline for removal from the airplane. Reassemble on installations by installing internal tension bolts on an "interchangeability without alteration" basis and installing 1/64-inch larger diameter Huck lock bolts in shear connections.

\*\*NOTE: Passenger seats immediately aft of the escape hatches shall have special outboard arm rests, however, they will be interchangeable in all other respects.



3.23 DEFINITIONS (Cont)

3.23  
(Cont)

2. Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.
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  - Engine Tail Cowl
  - Instrument Panels
  - Engine Nose Cowl
  - Horizontal Stabilizer, Leading Edge
  - Vertical Stabilizer, Leading Edge
  - \*Horizontal Stabilizer, Complete Assembly
  - Sealing Blades, Stabilizer to Fuselage
2. Interchangeable Without Alterations:
  - Pilots, Copilots and Flight Engineer Seat Assembly
  - \*\*Passenger Seat Assembly LH and RH
  - Control Column Assembly
  - Rudder Pedal Assembly
  - Control Horns forgings or castings where attached by bolts
  - Engine (quick change)
  - Nose Radome
  - Pilot's Enclosure Glass
  - Cabin Windows

\*Complete stabilizer assembly interchangeable airplane to airplane by disassembly of halves at the airplane centerline for removal from the airplane. Reassemble on installations by installing internal tension bolts on an "interchangeability without alteration" basis and installing 1/64-inch larger diameter Huck lock bolts in shear connections.

\*\*NOTE: Passenger seats immediately aft of the escape hatches shall have special outboard arm rests, however, they will be interchangeable in all other respects.

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3.23 DEFINITIONS (Cont)

3.23  
(Cont)

2. Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.
3. Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, seals and strikers but which may require trim and minor fitting when interchanged.
4. Inherently Interchangeable Parts: (Example Control Cables - Door Latches, etc.)
5. Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.

3.23.1

EQUIPMENT INTERCHANGEABILITY:

1. Interchangeable Parts:
  - Fuel Tank Access Doors
  - Tail Cone
  - Wing Tips
  - Buffet Sections
  - Emergency Exit Panel Assembly
  - Engine Tail Cowl
  - Instrument Panels
  - Engine Nose Cowl
  - Horizontal Stabilizer, Leading Edge
  - Vertical Stabilizer, Leading Edge
  - \*Horizontal Stabilizer, Complete Assembly
  - Sealing Blades, Stabilizer to Fuselage
2. Interchangeable Without Alterations:
  - Pilots, Co-pilots and Flight Engineer Seat Assembly
  - Passenger Seat Assembly LH and RH
  - Control Column Assembly
  - Rudder Pedal Assembly
  - Control Horns forgings or castings where attached by bolts
  - Engine (Quick Change)
  - Nose Radome
  - Pilot's Enclosure Glass
  - Cabin Windows

\*Complete stabilizer assembly interchangeable airplane to airplane by disassembly of halves at the airplane centerline for removal from the airplane. Reassemble on installation by installing internal tension bolts on an "interchangeability without alteration" basis and installing 1/64-inch larger diameter Huck lock bolts in shear connections.



3.23

DEFINITIONS (Cont)

3.23.  
(Cont)

2. Interchangeable Without Alteration: Those parts which are interchangeable from one airplane to another without fabricating operations such as cutting, filing, drilling, reaming, bending, etc.
3. Interchangeable Doors: Doors interchangeable from one airplane to another with regard to latches, hinges, seals and strikers but which may require trim and minor fitting when interchanged.
4. Inherently Interchangeable Parts: (Example Control Cables - Door Latches, etc).
5. Replaceable Parts: Parts manufactured in a manner employing jigs and fixtures or similar means to assure replaceability. Replaceable parts are distinguished from interchangeable parts in that some drilling and fitting is required during installation.

3.23.1

EQUIPMENT INTERCHANGEABILITY:

1. Interchangeable Parts:

Fuel Tank Access Doors  
Tail Cone  
Wing Tips  
Buffet Sections  
Emergency Exit Panel Assembly  
Engine Tail Cowl  
Instrument Panels  
Engine Nose Cowl

(3.23-3)

2. Interchangeable Without Alterations:

Pilots, Co-pilots and Flight Engineer Seat Assembly  
Passenger Seat Assembly LH and RH  
Control Column Assembly  
Rudder Pedal Assembly  
Control Horns forgings or castings where attached by bolts  
Engine (Quick Change)  
Nose Radome  
Pilot's Enclosure Glass  
Cabin Windows



3.23 DEFINITIONS (Cont)

3.23.1  
(Cont)

Wing Tip Caps  
Ailerons  
Elevators  
Rudders  
Tabs  
Horizontal Stabilizer Tips  
Vertical Stabilizer Tips  
Complete Landing Gears  
Wheels, Brakes, Tires, Tubes and Anti-skid details  
Lavatory Mirrors  
Cabin Floor Rugs  
Crew and Passenger Seat and Back Cushions and Arm  
Rest Covers

3. Interchangeable Doors:

Nose Landing Gear Doors  
Main Landing Gear Doors  
Fuselage Entrance Doors  
Nacelle Doors  
Fuselage Service Doors  
Cargo Doors

4. Inherently Interchangeable Parts:

Cable Assemblies  
Flaps  
Spoilers  
Landing Gear Door Mechanism

5. Replaceable Parts:

Sheet Metal Control Horns, Masts and Brackets  
Engine Attachments  
Wing Leading Edge  
Fairings  
Minor Access and Inspection Doors  
Floor Panels  
Access Panels  
Vertical Stabilizer, Complete Assembly  
Tail Cone

3.23.2

VENDOR PARTS: The Seller shall ascertain that vendor supplied components delivered with the airplane shall not have identical part numbers unless the component contains identical bills of material.



3.23 DEFINITIONS (Cont)

3.23.1  
(Cont)

Wing Tip Caps  
Horizontal Stabilizer, Complete Assembly  
Ailerons  
Elevators  
Rudders  
Tabs  
Horizontal Stabilizer Tips  
Vertical Stabilizer Tips  
Complete Landing Gears  
Wheels, Brakes, Tires, Tubes and Anti-skid details  
Lavatory Mirrors  
Cabin Floor Rugs  
Crew and Passenger Seat and Back Cushions and Arm Rest  
Covers

3. Interchangeable Doors:

Nose Landing Gear Doors  
Main Landing Gear Doors  
Fuselage Entrance Doors  
Nacelle Doors  
Fuselage Service Doors  
Cargo Doors

4. Inherently Interchangeable Parts:

Cable Assemblies  
Flaps  
Spoilers  
Landing Gear Door Mechanism

5. Replaceable Parts:

Sheet Metal Control Horns, Masts and Brackets  
Engine Attachments  
Wing Leading Edge  
Horizontal Stabilizer, Leading Edge  
Vertical Stabilizer, Leading Edge  
Fairings  
Minor Access and Inspection Doors  
Floor Panels  
Access Panels  
Vertical Stabilizer, Complete Assembly

3.23.2

(3.23-2)

VENDOR PARTS: The seller shall ascertain that vendor supplied components delivered with the airplane shall not have identical part numbers unless the component contains identical bills of material.



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## APPENDIX I-A

### CUSTOMER FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number	Total Weight (lb)
--------------	-------------	--------------	-------------------------	-------------------------

#### ELECTRONIC EQUIPMENT

2	ATC Transponder Beacon	Wilcox	714-B	47.6
1	Flight Data Recorder	Lockheed Air Service	4001550 (Model C)	29.0
1	Amplifier	Lockheed Air Service	4001551	3.8

#### OXYGEN SYSTEM - (CUSTOMER VENDED)

3	High Pressure Oxygen Cylinders and Valve Assembly (107-cubic foot) Including Pressure Gages	Zep Aero	ZC268-111-10	132.0
---	---	----------	--------------	-------

#### FURNISHINGS

\*8 Steel Lavatory Drain Tubes, .032-Gage, Consisting of:

2	Fwd Duct Assembly	DAL	44-574-200	14.4
1	Fwd Duct Assembly	DAL	44-574-202	
1	Aft Duct Assembly	DAL	44-575-200	
2	Aft Duct Assembly	DAL	44-575-202	
1	Aft Duct Assembly	DAL	44-575-204	
1	Aft Duct Assembly	DAL	44-575-2	

\*Effective Ships 14 and on.



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APPENDIX I-B

FURNISHINGS

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec.</u> <u>Number</u>
	Equipment to be Furnished and Installed by Customer after Delivery of Aircraft		
	Tray Carriers	R. E. F.	Model 815
	2-Gallon Liquid Containers	Mansfield Prod. Co.	#180-155
	Food Warming Ovens	Mansfield Prod. Co.	#206-115
	Hot Cups	Helmco-Lacy	#STD-N-VT-115
1	Emergency Axe		
2	First Aid Kits		

NOTE: All items listed in Appendix I-B are operating items which are not included in weight empty.



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APPENDIX I-A

CUSTOMER FURNISHED - CONVAIR INSTALLED

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec.</u> <u>Number</u>
ELECTRONIC EQUIPMENT			
	Dual-ATC Transponder Beacon		
64 66 1	Flight Data Recorder	Lockheed Air Service	4001550 (Model C)
1	Amplifier	Lockheed Air Service	4001551

APPENDIX I-B

FURNISHINGS

Equipment to be Furnished and Installed by Customer after  
Delivery of Aircraft

Description:

	Tray Carriers	R. E. F	Model 815
	2-Gallon Liquid Containers	Mansfield Prod. Co.	#180-155
	Food Warming Ovens	Mansfield Prod. Co.	#206-115
	Hot Cups	Helmco-Lacy	#STD-N-VT-115
1	Emergency Axe		
2	First Aid Kits		

NOTE: All items listed in Appendix I-B are operating items which  
are not included in weight empty.



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**APPENDIX I-A**

**CUSTOMER FURNISHED - CONVAIR INSTALLED**

<u>Quan Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec. Number</u>
<b>ELECTRONIC EQUIPMENT</b>			
1	Dual-ATC Transponder Beacon Flight Data Recorder	Lockheed Air Service	4001550 (Model C)
1	Amplifier	Lockheed Air Service	4001551

**APPENDIX I-B**

**FURNISHINGS**

Equipment to be Furnished and Installed by Customer after  
Delivery of Aircraft.

**Description:**

Tray Carriers (R. E. F. Model (815) 2-Gallon Liquid Containers	Mansfield Prod. Co.	#180-155
Food Warming Ovens	Mansfield Prod. Co.	#206-115
Hot Cups	Helmco-Lacy	#STD-N-VT-115



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## APPENDIX T-B

### FURNISHINGS

Equipment to be furnished and installed by Customer after  
Delivery of Aircraft.

#### Description:

Tray Carriers (R.E.F. Model 815)	Mansfield	#180-115
2-Gallon Liquid Containers	Prod. Co.	
Food Warming Ovens	Mansfield	#206-115
	Prod. Co.	
Hot Cups	Helmco-Lacy	#STD-N-VI-115





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APPENDIX I-C

POWER PLANE EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
\$4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 8-10-59
11 50 19B 19C 63 19D 19E 19F 243 259A 271 19G 19H 334 336 19I	Engines complete	Gen. Electric	CJ805-3, Phase 1 E-723F dated 8-10-59
\$\$\$4	Engines complete	Gen. Electric	CJ805-3A E-723F dated 8-10-59
4	Tachometer Generators (Furnished with Engine)	Gen. Electric	2CM9AAH4
4	Air Turbine Starters	AIResearch	359004-10
#4	Starter Shutoff Valves	AIResearch	105492-325-1
##4	Starter Shutoff Valves	AIResearch	105492-4
*4	Pressure Ratio Transmitter	Kollsman	A33041-50-025
**4	Pressure Ratio Transmitter	Kollsman	C33041-50-433
#2	Ice Warning Detectors	Goodyear (CARL)	123-00142 (Type T260-MK12A)
##2	Ice Warning Detectors	Goodyear (CARL)	123-00142 (Type T260-MK19A)

FUEL SYSTEM EQUIPMENT

8	Booster Pump Housing Assembly	Thompson Prod.	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve	Accessory Prod.	771100
	12 Fuel Line Trap Valve	Accessory Prod.	771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421D

\$Effective Ships 1 through 10  
\$\$Effective Ships 11 and 12  
\$\$\$Effective Ship 13  
\*Effective Ships 1 through 7  
\*\*Effective Ships 8 and on.  
#Effective Ships 1 through 10  
##Effective Ships 11 and on

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APPENDIX I-C

POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1 0 9B 9C 3 9D 9E 9F 43 59A 71 9G 9H 34 36	\$4 Engines complete	Gen. Electric	CJ805-3 E-723F dated 8-10-59
	\$\$4 Engines complete	Gen. Electric	CJ805-3, Phase 1 E-723F dated 8-10-59
	\$\$\$4 Engines complete	Gen. Electric	CJ805-3A E-723F dated 8-10-59
	4 Tachometer Generators (Furnished with Engine)		
	4 Air Turbine Starters	AIResearch	359004-10
	4 Starter Shutoff Valves	AIResearch	105492-325-1
	*4 Pressure Ratio Transmitter	Kollsman	A33041-50-025
	**4 Pressure Ratio Transmitter	Kollsman	033041-50-433
	2 Ice Warning Detectors	Goodyear (Carl)	Type T260-MK120

FUEL SYSTEM EQUIPMENT

8	Booster Pump Housing Assembly	Thompson Prod.	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod. Accessory Prod.	771100 771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421D
12	Tank Shutoff Valve	Whittaker	131805
4	Overwing Refuel Adapter & Cap Adapter	Gabb Spec. Prod.	FC-3500-96 37477-1 and 37477-3
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
ø4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-4
øø4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-5

\$Effective Ships 1 through 10

\$\$Effective Ships 11 and 12

\$\$\$Effective Ship 13

\*Effective Ships 1 through 7

\*\*Effective Ships 8 through 13

øApplicable to Airplanes 1, 2 and 5.

øøApplicable to Airplanes 3, 4, 6 and on.



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APPENDIX I-C  
POWER PLANT EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 3-15-57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIRResearch	359004-10
4	Starter Shutoff Valves	AIRResearch	105492-325-1
*1	Pressure Ratio Transmitter	Kollsman	A33041-50-025
**2	Pressure Ratio Transmitter	Kollsman	033041-50-433
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260- MK12A

FUEL SYSTEM EQUIPMENT

8	Booster Pump Housing Assembly	Thompson Prod	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod. Accessory Prod.	771100 771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421D
12	Tank Shutoff Valve	Whittaker	131805
4	Overwing Refuel Adapter & Cap Cap Adapter	Gabb Spec. Prod	FC-3500-96 37477-1 & 37477-3 20-657-1 4-357-1 5-357-1
4	Fuel Vent Valve	Schulz Tool	8TJ59GAM-4
4	Fuel Vent Valve	Schulz Tool	8TJ59GAM-5
4	Fuel Vent Valve	Schulz Tool	40113
4	Fuel Flow Transmitter	Gen. Electric	40120
4	Fuel Flow Transmitter	Gen. Electric	1327-575699
8	Pressure Switch	Hydra. Elect.	1327-575806
8	Pressure Switch	Hydra. Elect.	
4	Pressure Refueling Adapter	Parker Aircraft	
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	

\*Effective Ships 1 thru 7

\*\*Effective Ships 8 thru 13

Applicable to Airplanes 1, 2 and 5.

Applicable to Airplanes 3, 4, 6 and on.

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APPENDIX I-C  
 POWER PLANT EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 3-15-57
2/11 4/50 5/19B 5/19C 5/63 7/19D 12/19E 17/19F 18/243 9/259A 19/271 22/19G 25/19H	4 Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	359004-10
4	Starter Shutoff Valves	AIResearch	105492-325-1
*4	Pressure Ratio Transmitter	Kollsman	A33041-50-025
**4	Pressure Ratio Transmitter	Kollsman	033041-50-433
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260-MK12A
<u>FUEL SYSTEM EQUIPMENT</u>			
8	Booster Pump Housing Assembly	Thompson Prod	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod	771100
6	Cross-Feed Shutoff Valve	Accessory Prod	771000
4	Emergency Fuel Shutoff Valve	Whittaker	131805
12	Tank Shutoff Valve	General Con- trols	AV16B1421D
4	Overwing Refuel Adapter & Cap Cap Adapter	Whittaker Gabb Spec.Prod	131805 FC-3500-96 37477-1 & 37477-3
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	Gen.Electric	8TJ59GAM-5
8	Pressure Switch	Hydra.Electric	40113
8	Pressure Switch	Hydra.Electric	40120
4	Pressure Refueling Adapter	Parker Air- craft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Air- craft	1327-575806

\*Effective Ships 1 thru 7  
 \*\*Effective Ships 8 thru 13





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# APPENDIX I-C

## POWER PLANT EQUIPMENT

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723F dated 3-15-57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	359004-10
4	Starter Shutoff Valves	AIResearch	105492-325-1
4	Pressure Ratio Transmitter	Kollsman	A33041-50-025
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260-MK12A
<u>FUEL SYSTEM EQUIPMENT</u>			
8	Booster Pump Housing Assembly	Thompson Prod.	TB-141100-4 TB-139900-2 TB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod. Accessory Prod.	771100 771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421D
12	Tank Shutoff Valve	Whittaker	131805
4	Overwing Refuel Adapter & Cap Cap Adapter	Gabb Spec.Prod.	FC-3500-96 37477-1 & 37477-3 20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Vent Valve	Schulz Tool	8TJ59GAM-5
4	Fuel Flow Transmitter	Gen. Electric	40113
8	Pressure Switch	Hydra.Electric	40120
8	Pressure Switch	Hydra.Electric	1327-575699
4	Pressure Refueling Adapter	Parker Aircraft	1327-575806
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	2-155-61
4	Underwing Automatic Shutoff Valve	Schulz Tool	730600
4	Fuel Jettison Shutoff Valve	Accessor Prod.	131805
2	Defuel Valve	Whittaker	
8	Pressure Switch - Eng. Main Fuel Pump	Aero Instru.	1B2522-9

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**APPENDIX I-C**  
**POWER PLANT EQUIPMENT**  
**CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	351810
4	Starter Shutoff Valves	AIResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260-MK12A

**FUEL SYSTEM EQUIPMENT**

8	Booster Pump Housing Assembly	Thompson Prod.	XTB-141000 XTB-139900 XTB-139100
18	Drain Valves, consisting of: 6 Fuel Tank Low Point Valve 12 Fuel Line Trap Valve	Accessory Prod.	771100 771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421B
4	Tank Shutoff Valve	Whittaker	131805
4	Overwing Refuel Adapter and Cap Cap Adapter	Gabb Special Prod.	FC-3500-96 37477-1 & 37477-3
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
*4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-2
**4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAM-3
8	Pressure Switch	Hydra. Electric	40113
8	Pressure Switch	Hydra. Electric	40120
4	Pressure refueling Adapter	Parker Aircraft	1327-57699
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	1327-57806
4	Underwing Automatic Shutoff Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod	730600
2	Defuel Valve	Whittaker	131805
8	Pressure Switch-Eng. Main Fuel Pump	Aero Instru.	1B2522-9

\*Applies to airplanes 1 through 5  
\*\*Applies to airplanes 6 through 10



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## APPENDIX I-C

### POWER PLANT EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	351810
4	Starter Shutoff Valves	AIResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
2	Ice Warning Detectors	Goodyear (Carl)	3065-1802 Type T260-MK12A

#### FUEL SYSTEM EQUIPMENT

8	Booster Pump Housing Assembly	Thompson Prod.	XTB-141000 XTB-139900 XTB-139100
4	Drain Valves, consisting of: 2 Fuel Tank Low Point Valve		
	2 Fuel Line Trap Valve	Accessory Prod.	771100
6	Cross-Feed Shutoff Valve	Accessory Prod.	771000
4	Emergency Fuel Shutoff Valve	Whittaker	131805
4	Tank Shutoff Valve	General Controls	AV16B1421B
4	Overwing Refuel Adapter and Cap Cap Adapter	Whittaker	131805
		Gabb Special prod.	FC-3500-96 37477-1 & 37477- 3
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAD-1
8	Pressure Switch	Hydra Electric	40113
8	Pressure Switch	Hydra Electric	40120
4	Pressure Refueling Adapter	Parker Aircraft	1327-57699
4	Cap-Pressure Fuel Servicing (Flush-Type)		
4	Underwing Automatic Shutoff Valve	Parker Aircraft	1327-57806
4	Fuel Jettison Shutoff Valve	Schulz Tool	2-155-61
2	Defuel Valve	Accessory Prod.	730600
8	Pressure Switch-Eng. Main Fuel Pump	Whittaker	131805
		Aero Instru.	1B2522-9

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A DIVISION OF AERIAL DYNAMICS CORPORATION  
SAN DIEGO

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REPORT NO. ZD-22-003  
MODEL 22  
DATE 9-20-56

Rev. 9-25-59

## APPENDIX I-C

### POWER PLANT EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	Gen. Electric	CJ805-3 E-723 dated 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	351810
4	Starter Shutoff Valves	AIResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
4	Ice Warning Detectors	Goodyear	3065-1802

#### FUEL SYSTEM EQUIPMENT

8	Booster Pump Housing Assembly	Thompson Prod.	XTB-141000 XTB-139900 XTB-139100
4	Drain Valves, consisting of: 2 Fuel Tank Low Point Valve	Accessory Prod.	771100
6	2 Fuel Line Trap Valve	Accessory Prod.	771000
4	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421B
4	Tank Shutoff Valve	Whittaker	131805
4	Overwing Refuel Adapter and Cap Cap Adapter	Gabb Special Prod.	FC-3500-96 37477-1 & 37477-3 20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Vent Valve	Schulz Tool	8TJ59GAD-1
4	Fuel Flow Transmitter	Gen. Electric	40113
8	Pressure Switch	Hydra Electric	40120
8	Pressure Switch	Hydra Electric	1327-57699
4	Pressure Refueling Adapter	Parker Aircraft	1327-57806
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	2-155-61
4	Underwing Automatic Shutoff Valve	Schulz Tool	730600
4	Fuel Jettison Shutoff Valve	Accessory Prod.	131805
2	Defuel Valve	Whittaker	
8	Pressure Switch-Eng. Main Fuel Pump	Aero Instru.	1B2522-9



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## APPENDIX I-C

### POWER PLANT EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
1	4 Engines complete	G.E.-CJ-805-3	E-723 3/15/57
0	4 Tachometer Generators		
9B	(Furnished with Engine)		
9C	4 Air Turbine Starters	AIResearch	351810
3	4 Starter Shutoff Valves	AIResearch	105402
9D	4 Pressure Ratio Transmitter	Kollsman	A31351-00-025
9E	4 Ice Warning Detectors	Goodyear (CARL)	3065-1802 Type T260-MK12A

#### FUEL SYSTEM EQUIPMENT

8	Booster Pump	Thompson Prod.	XTB-141000
4	Drain Valves, Consisting of:		
	2 Fuel Tank Low Point Valve	Accessory Prod.	771100
	2 Fuel Line Trap Valve	Accessory Prod.	771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	
4	Tank Shutoff Valve	Whittaker	131805
4	Fuel Tank Cap		
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAD-1
8	Pressure Switch	Hydra Electric	40113
8	Pressure Switch	Hydra Electric	40120
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	1327-575806
4	Underwing Float Automatic Shutoff Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod.	730600
2	Defuel Valve	Whittaker	131805
4	Fuel Quantity Indicator (Repeater)		
8	Pressure Switch-Eng. Main Fuel Pump	Aero Instru.	1B2522-9

#### OIL SYSTEM EQUIPMENT

4	Indicators, Engine Oil Pressure	U.S. Gauge	SR-04B
4	Oil Pressure Transmitter	U.S. Gauge	ST-104M
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Switch	Hydro-Elec.	1023
4	Oil Quantity Transmitter (Furnished with Engine)	Simmonds	381061-01059
4	Indicator, Quantity, Engine Oil	Simmonds	393024-01629

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APPENDIX I-A

BUYER FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. No.	Total Weight (lb)
<u>PROPULSION EQUIPMENT</u>				
4	Engine, complete (dry) Includes items of standard equipment as listed in G.E. Spec. E-739b dated 11-28-58	Gen. Electric	CJ-805-21 E-739b dated 11-28-58	15,000
<u>FURNISHINGS</u>				
4	Buffets (including pro- visions for Buyer furnished items noted in Appendix I-B) Vacuum cleaner outlets of 115v 400 cycle rating shall be included in the buffets as required.			900.0
1	Check-off Lists, Mechanical Lighted	Plastek Inc.	4793	1.0
2	*First Aid Kits			5.0
1	Crew Nameplate Holder	EBA-1156		0.5
1	Altimeter (Three-Pointer-Type)	Kollsman	671CPL-10- 051)	3.8
2	Visor, Sun (Flight Compartment)			1.2
2	Emblem, AAL			2.0
<u>OXYGEN EQUIPMENT</u>				
5	Hose, Oxygen Sub-Assy	Sierra	232-212)	9.0
5	Goggle, Crew Smoke	Sierra	322-01 }	

\*Fixed Useful Load Item



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POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
4	Engines complete	G.E.-CJ-805-3	E-723 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	351810
4	Starter Shutoff Valves	AIResearch	105492
4	Pressure Ratio Transmitter	Kollsman	A31351-00-025
4	Ice Warning Indicator Units		

FUEL SYSTEM EQUIPMENT

8	Booster Pump	Thompson Prod.	XTE-141000
4	Drain Valves, consisting of:		
	2 Fuel Tank Low Point Valve	Accessory Prod.	771100
	2 Fuel Line Trap Valve	Accessory Prod.	771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	
4	Tank Shutoff Valve	Whittaker	131805
4	Fuel Tank Cap		
4	Fuel Vent Valve	Schulz Tool	20-657-1
4	Fuel Vent Valve	Schulz Tool	4-357-1
4	Fuel Vent Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	Gen. Electric	8TJ59GAD-1
8	Pressure Switch	Hydra Electric	40113
8	Pressure Switch	Hydra Electric	40120
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush Type)	Parker Aircraft	1327-575806
4	Underwing Float Automatic Shutoff Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod.	730600
2	Defuel Valve	Whittaker	131805
4	Fuel Quantity Indicator (Repeater)		

OIL SYSTEM EQUIPMENT

4	Indicators, Engine Oil Pressure		
4	Oil Pressure Transmitter		
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Low Warning Switch		
4	Oil Quantity Transmitter (Furnished with Engine)		
AR	Oil Quantity Indicator		



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APPENDIX I-C

POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
4	Engines complete	G.E.-CJ-805-3	E-723 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AIResearch	351810
4	Starter Shutoff Valves	AIResearch	105492
4	Pressure Ratio Transmitter		
4	Ice Warning Indicator Units		

FUEL SYSTEM EQUIPMENT

8	Booster Pump	Thompson Prod.	XTB-141000
4	Drain Valves, consisting of:		
	2 Fuel Tank Low Point Valve	Accessory Prod.	771100
	2 Fuel Line Trap Valve	Accessory Prod.	771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	
4	Tank Shutoff Valve	Whittaker	131805
4	Fuel Tank Cap		
8	Fuel Vent Float Valve, Con-		
	sisting of:		
	4 Fuel Tank Vent Valve	Schulz Tool	4-357-1
	4 Pressure Relief Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	General Electric	8TJ59GAD-1
4	Fuel Low Pressure Warning Switch		
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush Type)	Parker Aircraft	1327-575806
4	Underwing Float Automatic Shutoff Valve	Schulz Tool	2-155-61
AR	Fuel Dump Shutoff Valve		
2	Defuel Valve	Whittaker	131805
4	Fuel Quantity Indicator(Repeater)		

OIL SYSTEM EQUIPMENT

4	Indicators, Engine Oil Pressure		
4	Oil Pressure Transmitter		
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Low Warning Switch		
4	Oil Quantity Transmitters (Furnished with Engine)		
AR	Oil Quantity Indicators		



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**APPENDIX I-C**

**POWER PLANT EQUIPMENT**

**CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec Number
4	Engines complete	G.E. - CJ-805-3	E-723 3/15/57
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters	AiResearch	351810
4	Starter Shutoff Valves	AiResearch	105492
4	Pressure Ratio Transmitter		
4	Ice Warning Indicator Units		

**FUEL SYSTEM EQUIPMENT**

8	Booster Pump	Thompson Prod.	XTB-141000
4	Drain Valves, consisting of:		
	2 Fuel Tank Low Point Valve	Accessory Prod.	771100
	2 Fuel Line Trap Valve	Accessory Prod.	771000
6	Cross-Feed Shutoff Valve	Whittaker	131805
4	Emergency Fuel Shutoff Valve	General Controls	AV16B1421B
4	Tank Shutoff Valve	Whittaker	131805
4	Fuel Tank Cap		
8	Fuel Vent Float Valve, Con- sisting of:		
	4 Fuel Tank Vent Valve	Schulz Tool	4-357-1
	4 Pressure Relief Valve	Schulz Tool	5-357-1
4	Fuel Flow Transmitter	General Electric	8TJ59GAD-1
4	Fuel Low Pressure Warning Switch		
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush Type)	Parker Aircraft	1327-575806
4	Underwing Float Automatic Shutoff Valve	Schulz Tool	2-155-61
AR	Fuel Dump Shutoff Valve		
2	Defuel Valve	Whittaker	131805
4	Fuel Quantity Indicator(Repeater)		

**OIL SYSTEM EQUIPMENT**

4	Indicators, Engine Oil Pressure		
4	Oil Pressure Transmitter		
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Low Warning Switch		
4	Oil Quantity Transmitters (Furnished with Engine)		
AR	Oil Quantity Indicators		

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POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part of Spec Number
4	Engines complete		
4	Tachometer Generators (Furnished with Engine)		
4	Air Turbine Starters		
4	Starter Shutoff Valves		
4	Pressure Ratio Transmitter		
4	Ice Warning Indicator Units		
FUEL SYSTEM EQUIPMENT			
AR	Booster Pumps		
4	Drain Valves		
10	Cross-Feed Shutoff Valves		
4	Firewall Shutoff Valves		
4	Tank Shutoff Valves		
4	Fuel Tank Caps		
8	Fuel Vent Float Valves		
4	Fuel Flow Transmitters		
4	Fuel Low Pressure Warning Switches		
4	Underwing Refueling Units		
4	Underwing Float Automatic Shutoff Valves		
AR	Fuel Dump Shutoff Valves		
2	Defuel Valves		
4	Fuel Quantity Indicators (Repeater)		
OIL SYSTEM EQUIPMENT			
2	Oil Pressure Gages (Dual)		
4	Oil Pressure Transmitter		
2	Oil Temperature Gages (Dual)		
4	Oil Temperature Bulb		
4	Oil Pressure Low Warning Switch		
4	Oil Quantity Transmitters (Furnished with Engine)		
AR	Oil Quantity Indicators		



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POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

<u>Quan Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec. Number</u>
FUEL SYSTEM EQUIPMENT (Cont)			
8	Pressure Switch	Hydra. Elect.	40113
8	Pressure Switch	Hydra. Elect.	40120
4	Pressure Refueling Adapter	Parker Aircraft	1327-575699
4	Cap-Pressure Fuel Servicing (Flush-Type)	Parker Aircraft	1327-575806
4	Underwing Automatic Shutoff Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessory Prod.	730600
2	Defuel Valve	Whittaker	131805
8	Pressure Switch - Eng. Main Fuel Pump	Aero Instru.	1B2522-9
OIL SYSTEM EQUIPMENT			
4	Indicators, Engine Oil Pressure	U. S. Gauge	SR-04B
4	Oil Pressure Transmitter	U. S. Gauge	ST-104M
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23A
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Switch	Hydra. Electric	1023
4	Oil Quantity Transmitter (Furnished with Engine)	Simmonds	381061-01059
4	Indicator, Quantity, Engine Oil	Simmons	393024-03842



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POWER PLANT EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

<u>Quan Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec. Number</u>
<u>FUEL SYSTEM EQUIPMENT</u>			
4	Underwing Automatic Shutoff Valve	Schulz Tool	2-155-61
4	Fuel Jettison Shutoff Valve	Accessor Prod.	730600
2	Defuel Valve	Whittaker	131805
8	Pressure Switch - Eng. Main Fuel Pump	Aero Instru.	1B2522-9
<u>OIL SYSTEM EQUIPMENT</u>			
4	Indicators, Engine Oil Pressure	U.S. Gauge	SR-04B
4	Oil Pressure Transmitter	U.S. Gauge	ST-104M
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23A
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Switch	Hydra Electric	1023
4	Oil Quantity Transmitter (Furnished with Engine)	Simmonds	381061-01059
4	Indicator, Quantity, Engine Oil	Simmonds	393024-03842

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POWER PLANT EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
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OIL SYSTEM EQUIPMENT

4	Indicators, Engine Oil Pressure	U.S. Gauge	SR-04B
4	Oil Pressure Transmitter	U.S. Gauge	ST-104M
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23A
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Switch	Hydra Electric	1023
4	Oil Quantity Transmitter (Furnished with Engine)	Simmonds	381061-01059
4	Indicator, Quantity, Engine Oil	Simmonds	393024-03842

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### POWER PLANT EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>OIL SYSTEM EQUIPMENT</u>			
4	Indicators, Engine Oil Pres- sure	U. S. Gauge	SR-04B
4	Oil Pressure Transmitter	U. S. Gauge	ST-104M
4	Engine Oil Temperature Indicator	Lewis Eng.	162C23A
4	Oil Temperature Bulb	Lewis Eng.	56B3A
4	Oil Pressure Switch	Hydra Electric	1023
4	Oil Quantity Transmitter (Furnished with Engine)	Simmonds	381061-01059
4	Indicator, Quantity, Engine Oil	Simmonds	393024-01629



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APPENDIC I-C

ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>EXTERIOR LIGHTS</u>			
1	Wing Tip Lamp Assembly, L.H.	Grimes	40075-21-4174
1	Wing Tip Lamp Assembly, R.H.	Grimes	40075-22-4174
1	Wing Illumination Light, L.H.	Grimes	40265-1-4594
1	Wing Illumination Light, R.H.	Grimes	40265-2-4594
1	Light, Tail Position	Grimes	B7890-5
2	Light, Retractable Landing	Grimes	40285A-4616
1	Light, Dome, Wheel Well	Grimes	31595-23D
1	Light, Anti-Collision, Lower	Grimes	40045-1-7079
1	Light, Anti-Collision, Upper	Grimes	G9775-21-7079
2	Light, Signal and Auxiliary Landing	Grimes	40205-1-4559 L.H. 40205-2-4559 R.H.
<u>INTERIOR LIGHTS</u>			
13	Belly Cargo Dome Lights	Soderberg	S-1178
6	Buffet Compartment Lights	Luminator	L-14475
9	Lavatory Compartment Lights	Luminator	L-14483
1	Engineer's Utility Light	Grimes	D-6810-A
46	Ceiling and Aisle Lights	Luminator	L-14474
107	Passenger Reading Lights, L.H. and R.H.	Airite Pord.	7019-1
29	Cockpit Lights	Grimes	30750
		Grimes	30780
		Grimes	20485
		Master Spec.	414-100-1
		Master Spec.	415-100
		Luminator	L-15061
		Luminator	L-15481
13	Cargo Compartment Lights	Soderberg	S-1178
3	Coat Compartment Lights	Luminator	L-14487
6	Service Door Lights	Luminator	L-14475

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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan. Reqd	Description	Manufacturer	Part or Spec.
<u>EXTERIOR LIGHTS</u>			
1	Wing Tip Lamp Assembly, L.H.	Grimes	40075-21-4174
1	Wing Tip Lamp Assembly, R.H.	Grimes	40075-22-4174
1	Wing Illumination Light, L.H.	Grimes	40265-1-4594
1	Wing Illumination Light, R.H.	Grimes	40265-2-4594
1	Light, Tail Position	Grimes	B7890-5
2	Light, Retractable Landing	Grimes	40285A-4616
1	Light, Dome, Wheel Well	Grimes	31595-23D
1	Light, Anti-Collision, Lower	Grimes	40045-1-7079
1	Light, Anti-Collision, Upper	Grimes	G9775-21-7079
2	Light, Signal and Auxiliary Landing	Grimes	40205-1-4559L.H. 40205-2-4559R.H.
<u>INTERIOR LIGHTS</u>			
13	Belly Cargo Dome Lights	Soderberg	S-1178
6	Buffet Compartment Lights	Luminator	L-14475
9	Lavatory Compartment Lights	Luminator	L-14483
1	Engineer's Utility Light	Grimes	D-6810-A
46	Ceiling and Aisle Lights	Luminator	L-14474
107	Passenger Reading Lights, L.H. and R.H.	Airite Prod.	7019-1
29	Cockpit Lights	Grimes	30730
		Grimes	30750
		Grimes	30780
		Grimes	20485
		Master Spec.	328-100
		Master Spec.	330-100
		Master Spec.	414-100-1 and -3
		Master Spec.	415-100
		Luminator	14976
		Luminator	14978
		Luminator	L-15061
		Luminator	L-15481
		Soderberg	ES-3306
		Soderberg	ES-3310
		Soderberg	15535
13	Accessory Compartment Lights	Soderberg	S-1178
3	Coat Compartment Lights	Luminator	L-14487
2	Service Door Lights		



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### ELECTRICAL EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
EXTERIOR LIGHTS			
1	Wing Tip Lamp Assembly, L.H.	Grimes	40075-21-4174
1	Wing Tip Lamp Assembly, R.H.	Grimes	40075-22-4174
1	Wing Illumination Light, L.H.	Grimes	40265-2-4594
1	Wing Illumination Light, R.H.	Grimes	40265-1-4594
2	Position Lamp		
1	Tail Position Light	Grimes	B7890-1-311
2	Landing Light, Retractable	Grimes	40285-4559
1	Light, Dome, Wheel Well	Grimes	31595-23
1	Rotating Anti-Collis. Light Assembly, Lower	Grimes	40045-21-7079
1	Rotating Anti-Collis. Light Assembly, Upper	Grimes	G9775-21-7079
2	Auxiliary Landing Light (Signal Lights)	Grimes	40205-1 (L.H.) 40205-2 (R.H.)
INTERIOR LIGHTS			
13	Belly Cargo Dome Lights	Soderberg	S-1178
6	Buffet/Compartment Lights	Luminator	L-14475
9	Lavatory Compartment Lights	Luminator	L-14483
1	Engineer's Utility Light	Grimes	D-6810-A
46	Ceiling and Aisle Lights	Luminator	L-14474
107	Passenger Reading Lights, L.H. and R.H.	Airite Prod.	7019
29	Cockpit Lights	Grimes	30730
		Grimes	30750
		Grimes	30780
		Grimes	20485
		Master Spec.	328-100
		Master Spec.	330-100
		Master Spec.	414-100-1 & 3
		Master Spec.	415-100
		Luminator	14976
		Luminator	14978
		Luminator	L-15061
		Luminator	L-15481
		Soderberg	ES-3306
		Soderberg	ES-3310
		Soderberg	15535
		Soderberg	S-1178
13	Accessory Compartment Lights	Luminator	L-14487
3	Coat Compartment Lights		
2	Service Door Lights		

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### ELECTRICAL EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
<b>EXTERIOR LIGHTS</b>			
1	Wing Tip Lamp Assembly, L.H.	Grimes	40075-21-4174
1	Wing Tip Lamp Assembly, R.H.	Grimes	40075-22-4174
1	Wing Illumination Light, L.H.	Grimes	40265-2-4594
1	Wing Illumination Light, R.H.	Grimes	40265-1-4594
2	Position Lamp		
1	Tail Position Light	Grimes	B7890-1-311
2	Landing Light, Retractable	Grimes	40265-4559
1	Nose Wheel Well Light		
1	Rotating Anti-Collis. Light Assembly, Lower	Grimes	40045-21-7079
1	Rotating Anti-Collis. Light Assembly, Upper	Grimes	69775-21-7079
2	Auxiliary Landing Light (Signal Lights)		
<b>INTERIOR LIGHTS</b>			
AR	Belly Cargo Dome Lights		
2	Service Door Lights		
1	Buffet Compartment Light		
3	Lavatory Compartment Light		
1	Flight Engineer's Light		
AR	Ceiling and Aisle Light		
AR	Passenger Reading Light, L.H.		
AR	Passenger Reading Light, R.H.		
AR	Cockpit Light		
4	Fasten Seat Belts - No Smoking Sign		
3	Return to Cabin Sign		
3	Lavatory Occupied Sign		
AR	Accessory Compartment Light		
AR	Coat Compartment Light		
44	Valance - Type Fluorescent Lights		



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### ELECTRICAL EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty	Description	Manufacturer	Part or Spec. Number
EXTERIOR LIGHTS			
1	Wing Tip Lamp Assembly, L.H.	Grimes	40075-21-4174
1	Wing Tip Lamp Assembly, R.H.	Grimes	40075-22-4174
1	Wing Illumination Light, L.H.	Grimes	40265-2-4594
1	Wing Illumination Light, R.H.	Grimes	40265-1-4594
2	Position Lamp		
1	Tail Position Light	Grimes	B7890-1-311
2	Landing Light, Retractable	Grimes	40285-4559
1	Nose Wheel Well Light		
1	Rotating Anti-Collis. Light Assembly, Lower	Grimes	40045-21-7079
1	Rotating Anti-Collis. Light Assembly, Upper	Grimes	G9775-21-7079
2	Auxiliary Landing Light (Signal Lights)		
INTERIOR LIGHTS			
AR	Belly Cargo Dome Lights		
2	Service Door Lights		
1	Buffet Compartment Light		
3	Lavatory Compartment Light		
1	Flight Engineer's Light		
AR	Ceiling and Aisle Light		
AR	Passenger Reading Light, L.H.		
AR	Passenger Reading Light, R.H.		
AR	Cockpit Light		
2	Fasten Seat Belts - No Smoking Sign		
3	Return to Cabin Sign		
3	Lavatory Occupied Sign		
AR	Accessory Compartment Light		
AR	Coat Compartment Light		

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
--------------	-------------	--------------	------------------------

EXTERIOR LIGHTS

1	Wing Tip Lamp Assembly (left hand)		
1	Wing Tip Lamp Assembly (right hand)		
2	Leading Edge Ice Inspection Lamps		
2	Position Lamps		
1	Tail Light, Red		
1	Tail Light, White		
2	Landing Lights		
1	Nose Wheel Well Light		
2	Rotating Anti-Collision Light Assemblies		
2	Auxiliary Landing Lights (Signal Lights)		

INTERIOR LIGHTS

AR	Belly Cargo Dome Lights		
2	Service Door Lights		
1	Buffet Compartment Light		
3	Lavatory Compartment Lights		
1	Flight Engineer's Light		
AR	Ceiling and Aisle Lights		
AR	Passenger Reading Lights, L.H.		
AR	Passenger Reading Lights, R.H.		
AR	Cockpit Lights		
2	Fasten Seat Belts - No Smoking Sign		
3	Return to Cabin Sign		
3	Lavatory Occupied Sign		
AR	Accessory Compartment Light		
AR	Coat Compartment Light		



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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
EXTERIOR LIGHTS			
1	Wing Tip Lamp Assembly (left hand)		
1	Wing Tip Lamp Assembly (right hand)		
2	Leading Edge Ice Inspection Lamps		
2	Position Lamps		
1	Tail Light, Red		
1	Tail Light, White		
2	Landing Lights		
1	Taxi Light		
1	Nose Wheel Well Light		
2	Rotating Anti-Collision Light Assemblies		
1	Signal Light		
INTERIOR LIGHTS			
AR	Belly Cargo Dome Lights		
2	Service Door Lights		
1	Buffet Compartment Light		
3	Lavatory Compartment Lights		
1	Flight Engineer's Light x		
AR	Ceiling and Aisle Lights		
AR	Passenger Reading Lights, L.H. x		
AR	Passenger Reading Lights, R.H. x		
AR	Cockpit Lights		
2	Fasten Seat Belts - No Smoking Sign		
3	Return to Cabin Sign		
3	Lavatory Occupied Sign		
AR	Accessory Compartment Light		
AR	Coat Compartment Light		

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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
AR	Electrical Equipment Racks	Convair	22-61010
4	Loadmeters (d-c)	Gen. Electric	8DW84A1AA1
4	Loadmeters (a-c)	Gen. Electric	8AW61A2AA1
1	Voltmeter (d-c)	Gen. Electric	8DW84V1AA1
1	Voltmeter (a-c)	Gen. Electric	8AW61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
1	Battery, Storage (27.5 Volt) Nickel-Cadmium	Sonotone	CA-121
1	Warning Horn	Edwards	318
2	Power Failure Warning Units	Hartman	AVR-869
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartment	A-718K
1	External Power Receptacle(a-c) (AN 3114-1B)	Cannon Elec. Burton Elec. Joy Mfg. Co. A & J Anderson	17175-106 255 A6-437M6 4627
1	External Power Contactor	Gen. Electric	7290574P2
4	Transformer Rectifier	Chatham	28V 50-1
2	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	ABC Elec.	1097
1	Utility Receptacle	Hubbell	7332
4	Control Panel Regulator (a-c)	Gen. Electric	3S2781F125A-1
1	Battery Relay	Hartman	A718K
4	Line and Bus Tie Contactor	Gen. Electric	7290572
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	7TAR10AO1
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
1	Control Switch (for ground starter equipment)		MS35058-4
4	Electrical Receptacle (for ground starter equipment)	Bendix	(4 pc) 77-107014-2S Receptacle (4 pc) 10-74914-2 Seal (4) 10-113196-14 Adapter 9614
1	Warning Horn Repeat Cycle Timer	Std.Elec.Prod.	
1	Wheel Control Motor Stabilizer Trim	Sperry	2582028-02

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ELECTRICAL EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
AR	Electrical Equipment Racks	Convair	22-61010
4	Loadmeters (d-c)	Gen. Electric	8DW84A1AA1
4	Loadmeters (a-c)	Gen. Electric	8AW61A1AA1
1	Voltmeter (d-c)	Gen. Electric	8DW84V1AA1
1	Voltmeter (a-c)	Gen. Electric	8AW61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (27.5 Volt) Nickel-Cadmium	Sonotone	CA-121-H
1	Warning Horn	Edwards	318
2	Power Failure Warning Units	Hartman	AVR-869
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartment	A-718K
1	External Power Receptacle(a-c) (AN 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Contactor	Gen. Electric	729C574
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	Weber	
1	Utility Receptacle	Hubbell	7332
4	Control Panel Regulator (a-c)	Gen. Electric	3S2781F125A-1
1	Battery Relay	Hartman	A718K
4	Line and Bus Tie Contactor	Gen. Electric	729C572
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
1	Control Switch (for ground starter equipment)		MS35058-4
4	Electrical Receptacle (for ground starter equipment)	Bendix	(4 pc) 77-107014-2S Receptacle (4 p) 10-74914-2 Seal (4) 10-113196-14 Adapter
1	Warning Horn Repeat Cycle Timer	Std.Elec.Prod.	7162

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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit Mounting Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84AAB2
4	Loadmeters (a-c)	Gen. Electric	8 AW 61AAB2
1	Voltmeter (d-c)	Gen. Electric	8 DW 84VVB2
1	Voltmeter (a-c)	Gen. Electric	8 AW 61VVB2
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (24 volt or 2-12 volt)- Nickel - Cadmium		
1	Position Light Flasher		
1	Warning Horn		
2	Power Failure Warning Units	Hartman	AVR-869
	Flap Take-Off Warning Horn		
	Interrupter		
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power receptacle (A-C) (AN 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Relay	Gen. Electric	A874F
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids		
6	Shaver Outlet Receptacles		
1	Utility Receptacle		
4	Control Panel-Regulator (A-C)	Gen. Electric	3S2781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	B-124A
4	Back-Up Contactors (A-C)		
1	Bus Tie Contactor (D-C)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH4OB1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator-40-KVA, 6000 RPM	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AIRResearch (7-pin connector)	



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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit Mounting Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84AAB2
4	Loadmeters (a-c)	Gen. Electric	8 AW 61AAB2
1	Voltmeter (d-c)	Gen. Electric	8 DW 84VVB2
1	Voltmeter (a-c)	Gen. Electric	8 AW 61VVB2
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (24 volt or 2-12 volt)- Nickel - Cadmium		
1	Position Light Flasher		
1	Warning Horn		
2	Power Failure Warning Units	Hartman	AVR-869
	Flap Take-Off Warning Horn		
	Interrupter		
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power receptacle (A-C) (AN 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Relay	Gen. Electric	A874F
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids		
6	Shaver Outlet Receptacles		
1	Utility Receptacle		
4	Control Panel-Regulator (A-C)	Gen. Electric	3S2781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	B-124A
4	Back-Up Contactors (A-C)		
1	Bus Tie Contactor (D-C)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH4OB1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator-40 KVA	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AIResearch (7-pin connector)	



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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit Mounting Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84AAB2
4	Loadmeters (a-c)	Gen. Electric	8 AW 61AAB2
1	Voltmeter (d-c)	Gen. Electric	8 DW 84VVB2
1	Voltmeter (a-c)	Gen. Electric	8 AW 61VVB2
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage(24 volt or 2-12 volt)- Nickel - Cadmium		
1	Position Light Flasher		
1	Warning Horn		
2	Power Failure Warning Units	Hartman	AVR-869
	Flap Take-Off Warning Horn		
	Interrupter		
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power receptacle (A-C) (AM 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Relay	Gen. Electric	A874F
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids		
6	Shaver Outlet Receptacles		
1	Utility Receptacle		
4	Control Panel-Regulator (A-C)	Gen. Electric	3S2781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	B-124A
4	Back-Up Contactors (A-C)		
1	Bus Tie Contactor (D-C)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH4OB1
4	Constant Speed Drive Load Controller		
4	Generator-40 KVA	Gen. Electric	672B750
2	Control Switch (for ground starter equipment)	Gen. Electric	2CM211A1
1	Electrical Receptacle (for ground starter equipment)	BENDIX 10-107014-25 RACP 10-43196-14-APATER 10-28214-25 SCANNING ASSY A-Research (7-pin connector) 4	



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ELECTRICAL EQUIPMENT

CONVAIR FURNISHED & CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit		
	Mounting Racks		
4	Loadmeters (d-c)		
4	Loadmeters (a-c)		
1	Voltmeter (d-c)		
1	Voltmeter (a-c)		
2	Transformers, 1-Phase Standdown		
2	Transformers, 3-Phase		
1	Battery, Storage (24 volt or 2-12 volt) - Nickel - Cadmium		
*4 ✓	Alternators - 30KVA Approx 115/200V 3 Ø		
1	Position Light Flasher X		
1	Warning Horn		
2	Power Failure Warning Units		
1	Flap Take-Off Warning Horn X		
	Interrupter		
4	Ignition Switches		
4	Reverse Current Relays		
1	External Power receptacle (a-c)		
1	External Power Relay		
4	Transformer Rectifier		
2	Flare Release Solenoids X		
6	Shaver Outlet Receptacles X		
1	Utility Receptacle X		
4	A-C Control Panels		
4	A-C Voltage Regulators		
1	Battery Relay		
8	A-C Tie Breakers		
4	Back-Up Contactors (a-c)		
5	Main Line Contactors (d-c)		
4	Constant Speed Drive (Including Disconnect) @ 79 Lb 316.0 Lb		
4	Constant Speed Drive		
	Frequency Controller 32.0 Lb		
*	Generator - 30 KVA @ 76.0 Lb 304.0 Lb		

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**APPENDIX I-C**  
**ELECTRONIC EQUIPMENT**  
**CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<b><u>VHF NAVIGATION SYSTEM</u></b>			
2	Receivers	Collins	522-0833-034
2	RMI Indicators	Pioneer	36126-1AF-25-A1
2	Pictorial Deviation Indicator	Sperry	1777211-621
2	VOR/LOC Instrumentation Unit	Collins	344B-1 Type
1	Omni-Directional Antenna	Convair	522-0887-025 22-35505-1 and 2
<b><u>RADIO COMPASS (ADF) SYSTEM</u></b>			
*2	Receivers	Collins	51Y-3 Type
2	Servo Amplifiers	Collins	522-0769-014
2	Loop Antenna	Collins	333B-3
2	Sense Antenna, Flush	Convair	137A-2 Type 522-0771-005 22-30102-Basic
<b><u>MARKER BEACON</u></b>			
*1	Receiver	Collins	51Z-2 Type
1	Power Supply (a-c)	Collins	522-0592-014
1	Antenna, Semi Flush	Collins	516A1
			37X-2 Type 522-0834-003
<b><u>INSTRUMENT LANDING SYSTEM</u></b>			
*2	Glide Slope Receivers (a-c power source)	Collins	51V-3 Type
1	Antenna	Collins	522-0671-044
			372-4 Type 522-0688-013
<b><u>VHF COMMUNICATION</u></b>			
2	Transmitters	Collins	17L-7 Type
2	Receivers	Collins	522-0899-034
1	Antenna (Faired-In-Type)	Convair	51X-2 Type 522-0833-034
2	Antenna (Low Drag)	Microwave	22-30513 22-31006-1



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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>VHF NAVIGATION SYSTEM</u>			
2	Receivers	Collins	522-0833-034
2	RMI Indicators	Pioneer	36126-1AF-25-A1
2	Pictorial Deviation Indi- cator	Sperry	177211-621
2	VOR/LOC Instrumentation Unit	Collins	344B-1 Type 522-0887-025
1	Omni-Directional Antenna	Convair	22-35110
<u>RADIO COMPASS (ADF) SYSTEM</u>			
*2	Receivers	Collins	51Y-3 Type 522-0769-014
2	Servo Amplifiers	Collins	333B-3
2	Loop Antenna	Collins	137A-2 Type 522-0771-005
2	Sense Antenna, Flush	Convair	22-30102-Basic
<u>MARKER BEACON</u>			
*1	Receiver	Collins	51Z-2 Type 522-0592-014
1	Power Supply (a-c)	Collins	516A1
1	Antenna, Semi Flush	Collins	37X-2 Type 522-0854-003
<u>INSTRUMENT LANDING SYSTEM</u>			
*2	Glide Slope Receivers (a-c power source)	Collins	51V-3 Type 522-0671-044
1	Antenna	Collins	37P-4 Type 522-0688-003
<u>VHF COMMUNICATION</u>			
2	Transmitters	Collins	17L-7 Type 522-0899-034
2	Receivers	Collins	51X-2 Type 522-0833-034
1	Antenna (Faired-In-type)	Convair	22-30105
2	Antenna (LowDrag)	Microwave	175-10001

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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
VHF NAVIGATION SYSTEM			
2	Receivers	Collins	51X2
2	RMI Indicators	Pioneer	36105-1N
2	Pictorial Deviation Indicator	Sperry	1777211-621
2	VOR/LOC Instrumentation Unit	Collins	522-0887-025
1	Omni-Directional Antenna	Convair	22-35110
RADIO COMPASS (ADF) SYSTEM			
*2	Receivers	Collins	522-0769-014
2	Servo Amplifiers	Collins	333B-3
2	Loop Antenna	Collins	522-0771-005
2	Sense Antenna, Flush	Convair	22-30102-Basic
MARKER BEACON			
*1	Receiver	Collins	522-0592-014
1	Power Supply (ac)	Collins	516A1
1	Antenna, Semi Flush	Collins	522-0854-003
INSTRUMENT LANDING SYSTEM			
*2	Glide Slope Receivers (ac power source)	Collins	522-0671-044
1	Antenna	Collins	522-0688-003
VHF COMMUNICATION			
2	Transmitters	Collins	522-0899-034
2	Receivers	Collins	522-0833-034
1	Antenna (Faired-In-type)	Convair	
2	Antenna (Low Drag)	Microwave	175-10001
HF COMMUNICATION			
1	Transmitter-Receiver	Collins	597-0290-010
1	Power Unit (ac)	Collins	416W-3
1	Antenna Coupler	Collins	522-0532-004
1	Antenna	Convair	22-14900

NOTE: \*Indicates minaturized equipment.



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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
<b>VHF NAVIGATION SYSTEM</b>			
2	Receivers	Collins	51X2
2	RMI Indicators	Pioneer	36105-1N
2	Pictorial Deviation Indicator	Sperry	1777211-621
2	VOR/LOC Instrumentation Unit	Collins	3443-1
1	Omni-Directional Antenna	Convair	
<b>RADIO COMPASS (ADF) SYSTEM</b>			
*2	Receivers	Collins	51Y-3
2	Servo Amplifiers	Collins	333B-3
2	Loop Antenna	Collins	137A-2
2	Sense Antenna, Flush	Convair	22-30102-Basic
<b>MARKER BEACON</b>			
*1	Receiver	Collins	51Z-2
1	Power Supply (ac)	Collins	516A1
1	Antenna, Semi Flush	Collins	37X-2
<b>INSTRUMENT LANDING SYSTEM</b>			
*2	Glide Slope Receivers (ac power source)	Collins	51V-3
1	Antenna	Collins	37P-4
<b>VHF COMMUNICATION</b>			
2	Transmitters	Collins	17L-7
2	Receivers	Collins	51X-2
1	Antenna (Paired-In type)	Convair	
2	Antenna (low drag)	Microwave	175-10001
<b>HF COMMUNICATION</b>			
1	Transmitter-Receiver	Collins	6188-1
1	Power Unit (ac)	Collins	416W-3
1	Antenna Coupler	Collins	180 R-4
1	Antenna	Convair	P/N to be supplied

NOTE: \*Indicates miniaturized equipment.

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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
<b>VHF NAVIGATION SYSTEM</b>			
2	Receivers	Collins	51X2
2	RMI Indicators	Pioneer	36105-1N
2	Pictorial Deviation Indicator	Sperry	1777211-621
2	VOR/LOC Instrumentation Unit	Collins	344B-1
1	Omni-Directional Antenna	Convair	
<b>RADIO COMPASS (ADF) SYSTEM</b>			
*2	Receivers	Collins	51Y-3
2	Servo Amplifiers	Collins	333B-3
2	Loop Antenna	Collins	137A-2
2	Sense Antenna, Flush	Convair	22-30102-Basic
<b>MARKER BEACON</b>			
*1	Receiver	Collins	51Z-2
1	Power Supply (ac)	Collins	516A1
1	Antenna, Semi Flush	Collins	37X-2
<b>INSTRUMENT LANDING SYSTEM</b>			
*2	Glide Slope Receivers (ac power source)	Collins	51V-3
1	Antenna	Collins	37P-4
<b>VHF COMMUNICATION</b>			
2	Transmitters	Collins	17L-7
2	Receivers	Collins	51X-2
1	Antenna (Flush type)	Collins	37A-1
2	Antenna (Low drag)	Microwave	175-10001
<b>HF COMMUNICATION</b>			
1	Transmitter-Receiver	Collins	618S-1
1	Power Unit (ac)	Collins	416W-3
1	Antenna Coupler	Collins	180 R-4
1	Antenna	Convair	P/N to be supplied

NOTE: \*Indicates miniaturized equipment.



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
VHF NAVIGATION SYSTEM			
2	Receivers	Collins	51X2
2	RMI Indicators	Pioneer	36105-1N
2	Pictorial Deviation Indicator	Sperry	1777211-621
2	VOR/LOC Instrumentation Unit	Collins	344B-1
RADIO COMPASS (ADF) SYSTEM			
*2	Receivers	Collins	51Y-1
2	Servo Amplifiers	Collins	333B-3
MARKER BEACON			
*1	Receiver	Collins	51Z-2
1	Power Supply (AC)	Collins	516A1
INSTRUMENT LANDING SYSTEM			
*2	Glide Slope Receivers (AC Power Source)	Collins	51V-3
VHF COMMUNICATION			
2	Transmitters	Collins	17L-7
2	Receivers	Collins	51X-2
HF COMMUNICATION			
1	Transmitter-Receiver	Collins	618S-1
1	Power Unit (AC)	Collins	416W-3
1	Antenna Coupler	Collins	180 R-4

NOTE: \* Indicates miniaturized equipment.

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>HF COMMUNICATION</u>			
1	Transmitter-Receiver	Collins	618S-1 Type 597-0290-010
1	Power Unit (a-c)	Collins	416W-3
1	Antenna Coupler	Collins	180R-4 Type 522-0532-004
1	Antenna	Convair	22-14903



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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>HF COMMUNICATION</u>			
1	Transmitter-Receiver	Collins	618S-1 Type 597-0290-010-
1	Power Unit (a-c)	Collins	416W-3
1	Antenna Coupler	Collins	180R-4 Type 522-0532-004
1	Antenna	Convair	22-14900

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
VHF NAVIGATION SYSTEM			
2	Receivers	Collins	51R-4
2	RMI Indicators	Pioneer	36105-1N
2	Pictorial Deviation Indicator	Sperry	R-1
RADIO COMPASS (ADF) SYSTEM			
2*	Receivers	Collins	51Y-1
2	Servo Amplifiers	Collins	333B-3
MARKER BEACON			
1*	Receiver	Collins	51Z-2
1	Power Supply (AC)	Collins	516A1
INSTRUMENT LANDING SYSTEM			
2*	Glide Slope Receivers (AC Power Source)	Collins	51V-3
VHF COMMUNICATION			
2	Transmitters	Collins	17L-7
2	Receivers	Collins	51X-2
HF COMMUNICATION			
1	Transmitter-Receiver	Collins	618S-1
1	Power Unit (AC)	Collins	P/N to be supplied
1	Load Coil	Convair	P/N to be supplied

NOTE: \* Indicates miniaturized equipment.





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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>PASSENGER ENTERTAINMENT (PA) SYSTEM</u>			
1	Amplifier	Collins	346D-1, 522-0875-006
AR	Speakers	Jensen	P6V
1	Tape Reprodncer Presto per ARINC 539	Presto	MPB601-AC/DC
<u>INTERPHONE SYSTEM (SERVICE)</u>			
3	Handsets	Remler	A255/W75675-2
*1	Amplifier	Collins	356C-1 522-0395-003
3	Handset Holders	Roanwell	9607
<u>INTERPHONE SYSTEM (FLIGHT)</u>			
3	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07Z45
2	Amplifiers, Cockpit Speaker	Collins	Type 356D-1 522-0388-003
1	Frame Assembly Amplifier	Collins	346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003
<u>WEATHER RADAR</u>			
1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776C-1, 522-8369-004
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	537F-3, 522-8407-015
<u>DISTANCE MEASURING EQUIPMENT TACAN</u>			
2	Antenna	Electronic Specialty	LB-147

\*Indicates miniaturized equipment.

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
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PASSENGER ENTERTAINMENT (PA) SYSTEM

1	Amplifier	Collins	346D-1, 522-0875-006
AR 1	Speakers	Jensen	P6V
1	Tape Reproducer Presto per ARINC 539	Presto	MPB601-AC/DC

INTERPHONE SYSTEM (SERVICE)

3	Handsets	Remler	A255/W75675-2
*1	Amplifier	Collins	356C-1 522-0395-003
3	Handset Holders	Roanwell	9607

INTERPHONE SYSTEM (FLIGHT)

3	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07Z45
2	Amplifiers, Cockpit Speaker	Collins	Type 356D-1 522-0388-003
1	Frame Assembly Amplifier	Collins	346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003

WEATHER RADAR

1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776C-1 522-8369-004
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	537F-3, 522-8407-015

DISTANCE MEASURING EQUIPMENT TACAN

2	Antenna	Convair	LB-147
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NOTE: \*Indicates miniaturized equipment.



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>PASSENGER ENTERTAINMENT (PA) SYSTEM</u>			
1	Amplifier	Collins	346D-1, 522-0875-006
AR 1	Speakers	Jensen	P6V
	Tape Reprodncer Presto per ARINC 539	Presto	MPB601-AC/DC
<u>INTERPHONE SYSTEM (SERVICE)</u>			
3	Handsets	Remler	A255/W75675-2
*1	Amplifier	Collins	356C-1 522-0395-003
3	Handset Holders	Roanwell	9607
<u>INTERPHONE SYSTEM (FLIGHT)</u>			
4	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07Z45
2	Amplifiers, Cockpit Speaker	Collins	Type 356D-1 522-0388-003
1	Frame Assembly Amplifier	Collins	346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003
<u>WEATHER RADAR</u>			
1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776C-1 522-8369-004
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	537F-3, 522-8407-015
<u>DISTANCE MEASURING EQUIPMENT TACAN</u>			
2	Antenna	Convair	LB-147

NOTE: \*Indicates miniaturized equipment.

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>PASSENGER ENTERTAINMENT (PA) SYSTEM</u>			
1	Amplifier	Collins	346D-1, 522-0875-006
AR	Speakers	Jensen	P6V
1	Tape Reprodncer Presto per ARINC 539	Presto	MPB601-AC/DC
<u>INTERPHONE SYSTEM (SERVICE)</u>			
3	Handsets	Remler	A255
*1	Amplifier	Collins	356C-1 522-0395-003
3	Handset Holders	Western Elec.	G2-3
<u>INTERPHONE SYSTEM (FLIGHT)</u>			
4	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07Z45
2	Amplifiers, Cockpit Speaker	Collins	Type 356D-1 522-0388-003
1	Frame Assembly Amplifier	Collins	346B-1 522-0387-085
1	Amplifier	Collins	522-0395-003
<u>WEATHER RADAR</u>			
1	Transmitter/Receiver	Collins	374-AI Type 522-8370-004
1	Synchronizer (Accessory Unit)	Collins	776C-1 522-8369-004
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	537F-3, 522-8407-015
<u>DISTANCE MEASURING EQUIPMENT TACAN</u>			
2	Antenna	Convair	P/N to be supplied

NOTE: \*Indicates miniaturized equipment.



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
PASSENGER ENTERTAINMENT (PA) SYSTEM			
1	Amplifier	Collins	522-0375-006
AR	Speakers	Jensen	P6V
1	Tape Reprodncer Presto per ARINC 339	Presto	MPB600-AC/DC
INTERPHONE SYSTEM (SERVICE)			
3	Handsets	Remlor	A255
*1	Amplifier	Collins	522-0395-003
3	Handset Holders	Western Elec.	G2-3
1	Signal Horn	Convair	P/N to be supplied
INTERPHONE SYSTEM (FLIGHT)			
4	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07245
2	Cockpit Speaker Amplifiers	Collins	522-0388-003
1	Frame Assembly Amplifier	Collins	522-0387-085
WEATHER RADAR			
1	Transmitter/Receiver	Collins	522-8370-004
1	Synchronizer (Accessory Unit)	Collins	522-8369-004
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	522-8407-015
DISTANCE MEASURING EQUIPMENT TACAN			
2	Antenna	Convair	P/N to be supplied

NOTE: \*Indicates miniaturized equipment.

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
PASSENGER ENTERTAINMENT (PA) SYSTEM			
1	Amplifier	Collins	346D-1
AR	Speakers	Jensen	P6V
1	Tape Reproducer Presto per ARINC 539	Presto	MPB600
INTERPHONE SYSTEM (SERVICE)			
3	Handsets	Remler	A255
*1	Amplifier	Collins	356C1
3	Handset Holders	Western Elec.	G2-3
1	Signal Horn	Convair P/N to be supplied	
INTERPHONE SYSTEM (FLIGHT)			
4	Microphones	Telephonics	RS-38E
4	Headsets	Telephonics	TC136B
2	Cockpit Speakers	Quam	4A07Z45
2	Cockpit Speaker Amplifiers	Collins	356D1
1	Case-Frame-Power Unit	Collins	346B-1
WEATHER RADAR			
1	Transmitter/Receiver	Collins	374-A1
1	Synchronizer	Collins	776-C1
1	Indicator	Collins	493A-2
1	Antenna (30")	Collins	537F-3
DISTANCE MEASURING EQUIPMENT TACAN			
2	Antenna	Convair P/N to be supplied	

NOTE: \* Indicates miniaturized equipment.



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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
	ATC TRANSPONDER BEACON		
1	ATC Transponder Beacon per	ARINC Spec	532A
	PASSENGER ENTERTAINMENT (PA) SYSTEM		
1	Amplifier	Remler	A550
AR	Speakers	P/N to be supplied	
1	Tape Reproducer Presto per	ARINC	528A
	INTERPHONE SYSTEM (SERVICE)		
3	Handsets	Remler	A255
1*	Amplifier	Collins	356C1
3	Handset Holders	Western Elec.	G2-3
1	Signal Horn	Convair P/N to be supplied	
	INTERPHONE SYSTEM (FLIGHT)		
4	Microphones	P/N to be supplied by DAL	
4	Headsets	P/N to be supplied by DAL	
2	Cockpit Speakers	Convair P/N to be supplied	
2	Cockpit Speaker Amplifiers	Collins	356D1
1	Case-Frame-Power Unit	Collins	346A1
	WEATHER RADAR		
1	Transmitter/Receiver	Collins	374-A1
1	Synchronizer	Collins	776-C1
1	Indicator	Collins P/N to be supplied	
1	Antenna (34")	Collins	537F

NOTE: \* Indicates miniaturized equipment.

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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATC TRANSPONDER ANTENNA</u>			
2	Antenna	Electronic Spec.	LB-147-A
<u>CONTROL PANELS</u>			
2	VHF Comm/Nav. Control Panel	Gables	G-510V
1	HF Communication (dual)	Gables	G-509
1	Weather Radar Control Panel	Gables	G-512
2	ADF Control Panel	Collins	614L-6 Type 522-0928-004
1	Dual ATC Transp. Beacon/ Marker	Gables	G-565
4	Audio Selector Control Box	Gables	G-567
1	Sel. Call Ind. Cont. Panel (Dual)	Gables	G-566



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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
ATC TRANSPONDER ANTENNA			
2	Antenna - "L" Band Stub	Electronic Spec.	LB-147-A
CONTROL PANELS			
2	VHF Comm/Nav. Control Panel	Gables	G-510V
1	HF Communication (dual)	Gables	G-509
1	Weather Radar Control Panel	Gables	G-512
2	ADF Control Panel	Collins	522-0928-004
1	Dual-Transp. Beacon/Marker	Gables	G-565
4	Audio Selector Control Box	Gables	G-567
1	Sel. Call Ind. Cont. Panel (dual)	Gables	G-566
1	Marker Beacon Control	Convair	P/N to be supplied

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### ELECTRONIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty	Description	Manufacturer	Part or Spec. Number
ATC TRANSPONDER ANTENNA			
2	Antenna - "L" Band Stub	Electronic Spec.	LB-147-A
CONTROL PANELS			
2	VHF Comm/Nav. Control Panel	Gables	G-510V
1	HF Communication (dual)	Gables	G-509
1	Weather Radar Control Panel	Gables	G-512
2	ADF Control Panel	Collins	614L-6
1	Dual Transp. Beacon/Marker	Gables	G-565
4	Audio Selector Control Box	Gables	G-567
1	Sel. Call Ind. Control Panel (dual)	Gables	G-566
1	Marker Beacon Control	Convair	P/N to be supplied



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
VHF NAVIGATION SYSTEM ANTENNA			
1	Omni-Directional Antenna	Convair	
RADIO COMPASS (ADF) SYSTEM ANTENNA			
2	Loop Antenna	Collins	137A-2
2	Sense Antenna Flush	Convair	
MARKER BEACON ANTENNA			
1	Antenna (Semi-Flush)	Collins	37X-2
INSTRUMENT LANDING SYSTEM ANTENNA			
1	Antenna	Collins	37P-4
VHF COMMUNICATION ANTENNA			
1	Antenna (Flush Type) *	Collins	37R-1
2	Antenna (Low Drag)	Convair P/N to be supplied	
HF COMMUNICATION ANTENNA			
1	Antenna	Convair P/N to be supplied	
ATC TRANSPONDER ANTENNA			
2	Antenna - "L" Band Stub	Electronic Spec.	LB-147-A
CONTROL PANELS			
2	VHF/VOR Control Panel	Gables	G-510
1	HF Communication (Dual)	Gables	G-509
1	Weather Radar Control Panel	Gables	G-512
2	ADF Control Panel	Collins	614L-6
1	Dual Transp. Beacon/Marker	Gables	G-565
4	Audio Selector Control Box	Gables	G-567
1	Sel. Call Ind. Cont. Panel (Dual)	Gables	G-566
1	Marker Beacon Control	Convair P/N to be supplied	

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ELECTRONIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
	VHF NAVIGATION SYSTEM ANTENNA		
1	Omni-Directional Antenna	Convair	
	RADIO COMPASS (ADF) SYSTEM ANTENNA		
2	Loop Antennas	Collins	137A-1
2	Sense Antenna Flush	Convair	
	MARKER BEACON ANTENNA		
1	Antenna (Semi-Flush)	Collins	37X-1
	INSTRUMENT LANDING SYSTEM ANTENNA		
1	Antenna	Collins	37P-3
	VHF COMMUNICATION ANTENNA		
1	Antenna (Flush Type)	Collins	37R-1
2	Antenna (Low Drag)	Convair	P/N to be supplied
	HF COMMUNICATION ANTENNA		
1	Antenna	Convair	P/N to be supplied
	ATC TRANSPONDER ANTENNA		
1	Antenna	Convair	P/N to be supplied
	CONTROL PANELS		
2	VHF/VOR Control Panel	Convair	P/N to be supplied
1	HF Communication (Dual)		
1	Weather Radar Control Panel per	ARINC	529
2	ADF Control Panel	Convair	P/N to be supplied
1	ATC Transp. Beacon Panel	Convair	P/N to be supplied
4	Audio Selector Control Box	Convair	P/N to be supplied
1	Sel. Call Ind. Cont. Panel (Dual)	Convair	P/N to be supplied
1	Marker Beacon Control	Convair	P/N to be supplied





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# APPENDIX I-C

## INSTRUMENTS AND RELATED EQUIPMENT

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
5/19B 5/19C 5/60 5/68 7/19D 7/60A 0/147 2/19E 7/19F 9/259A 2/19G 5/19H	1 Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
4	Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
48	Fuel Quantity Probes	Simmonds Aerocess. 2 ea.	381056-02143 through 381056-02150, 381056-02152, 381056-02277 through 381056-02284, 381056-02286, 381056-02238 through 381056-02293
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01669
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01670
2	Fuel Quantity Ind.(Counter-Pointer-Type) Tanks #1 and #4	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind.(Counter-Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582
4	Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Remote Temp. Ind. Sensor and XMT		MS-28034-3
4	Tachometer Indicator	Gen. Electric	8DJ91LAB-Y1
1	Flap Position Indicator - Dual	Gen. Electric	8TJ39AAH-1
2	Flap Position Transmitter	Pioneer Central	1653-6AB-A6-1
2	Rate of Climb Indicator	Pioneer Central	3924-1AG-B1-1
2	Turn and Slip Indicator (Electric)	Wakmann	W33-7530-10
2	Clocks		
2	Pressure Indicator (Hydraulic)	U.S. Gauge	SRL-07J
4	Hydraulic Pump Failure Lt. Light	Korrry	MV1-1

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## APPENDIX I-C

### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	80079-2
1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman	B26395-10-007
1	Cabin Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
1	Magnetic Compass	U. S. Gauge	C-4B
4	Exhaust Temperature Indicator	Honeywell	JG246A-2
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Reverse Thrust Indicating and Intransit Light	Korry	Base STZ60-AD Cap 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base ST390C Cap S3V1-1A
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	535461
2	Warning Light, Cabin Compressor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4
*1	Dual-Indicator, Compressor Inlet and Compressor Outlet Temperature		

#### MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-20
1	Mach/Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487

\*Effective Ships 14 and on.



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APPENDIX I-C

ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. No.
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units'		
AR	Fuel Qty Power Unit Mtg Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84A1AA1
4	Loadmeters (a-c)	Gen. Electric	8 AW 61A1AA1
1	Voltmeter (d-c)	Gen. Electric	8 DW 84V1AA1
1	Voltmeter (a-c)	Gen. Electric	8 AW 61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (27.5-Volt) Nickel - Cadmium	Sonotone	CA-121-H
1	Position Light Flasher		
1	Warning Horn	Edwards	318
2	Power Failure Warning Units	Hartman	AVR-869
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power Receptacle (a-c) (AN 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Contactor	Gen. Electric	729C574
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	Weber	
1	Utility Receptacle	Hubbell	7332
4	Control Panel-Regulator (a-c)	Gen. Electric	382781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	729C572
4	Back-Up Contactors (a-c)		
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2GM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AirResearch (7-pin con- nector)	
1	Warning Horn Repeat Cycle Timer	Std. Elec. Prod.	7162
1	Wheel Control Motor (Stabilizer Trim)		



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## APPENDIX I-C

### ELECTRICAL EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec.
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units'		
AR	Fuel Qty Power Unit Mtg Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84A1AA1
4	Loadmeters (a-c)	Gen. Electric	8 AW 61A1AA1
1	Voltmeter (d-c)	Gen. Electric	8 DW 84V1AA1
1	Voltmeter (a-c)	Gen. Electric	8 AW 61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 1-Phase	Osborne	6784
1	Battery, Storage (21.5-Volt) Nickel - Cadmium	Sonotone	CA-121-H
1	Position Light Flasher		
1	Warning Horn	Edwards	318
2	Power Failure Warning Units	Hartman	AVR-869
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power Receptacle (a-c) (AN 3114-1B)	Cannon Elec. Burton Elec. Joy Mfg. Co. A & J Anderson	17175-106 255 A6-437M6 4627
1	External Power Contactor	Gen. Electric	729C574
4	Transformer Rectifier	Chatham	28V850
2	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	Weber	
1	Utility Receptacle	Hubbell	7332
4	Control Panel-Regulator (a-c)	Gen. Electric	3S2781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	729C572
4	Back-Up Contactors (a-c)		
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AIResearch (7-pin connector)	
1	Warning Horn Repeat Cycle Timer	Std. Elec. Prod.	7162



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**ELECTRICAL EQUIPMENT**

**CONVAIR FURNISHED - CONVAIR INSTALLED**

Qty Reqd	Description	Manufacturer	Part or Spec. Number
/19B AR	Electrical Equipment Racks		
/19C AR	Fuel Quantity Power Units		
/32B AR	Fuel Qty Power Unit Mtg Racks		
/25 4	Loadmeters (d-c)	Gen. Electric	8 DW 84A1AA1
/19D 4	Loadmeters (a-c)	Gen. Electric	8 AW 61A1AA1
/19E 1	Voltmeter (d-c)	Gen. Electric	8 DW 84V1AA1
1	Voltmeter (a-c)	Gen. Electric	8 AW 61V1AA1
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (27.5-Volt) Nickel - Cadmium	Sonotone	CA-121-H
1	Position Light Flasher		
1	Warning Horn	Edwards	318
2	Power Failure Warning Units	Hartman	AVR-869
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power Receptacle (a-c) (AN 3114-1B)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	A6-437M6
		A & J Anderson	4627
1	External Power Contactor	Gen. Electric	729C574
4	Transformer Rectifier	Chatham	28VS50
2	Flare Release Solenoids	Meletron	130
3	Shaver Outlet Receptacles	Weber	
1	Utility Receptacle	Hubbell	7332
4	Control Panel-Regulator (a-c)	Gen. Electric	382781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	729C572
4	Back-Up Contactors (a-c)		
1	Bus Tie Contactor (d-c)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2CLKH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AIResearch (7-pin connector)	
1	Warning Horn Repeat Cycle Timer	Std. Elec. Prod.	7162



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## APPENDIX I-C

### ELECTRICAL EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
9B AR	Electrical Equipment Racks		
9C AR	Fuel Quantity Power Units		
2B AR	Fuel Qty Power Unit Mtg Racks		
5 4	Loadmeters (dc)	Gen. Electric	8 DW 84AAB2
2D 4	Loadmeters (ac)	Gen. Electric	8 AW 61AAB2
	1 Voltmeter (dc)	Gen. Electric	8 DW 84VVB2
	1 Voltmeter (ac)	Gen. Electric	8 AW 61VVB2
	2 Transformers, 1-Phase Stepdown	Osborne	6781
	2 Transformers, 3-phase	Osborne	6784
	1 Battery, Storage (24 volt or 2-12 volt) - Nickel - Cadmium		
	1 Position Light Flasher		
	1 Warning Horn		
	2 Power Failure Warning Units	Hartman	AVA-869
	Flap Take-Off Warning Horn Interrupter		
	4 Ignition Switches	Micro	V3-1
	4 Reverse Current Relays	Hartman	A-718K
	1 External Power Receptacle (ac) (AN 3114-1B)	Cannon Elec. Burton Elec. Joy Mfg. Co. A & J Anderson	17175-106 255 A6-43716 4627
	1 External Power Contactor	Gen. Electric	729C574
	4 Transformer Rectifier	Chatham	28VS50
	2 Flare Release Solenoids		
	6 Shaver Outlet Receptacles		
	1 Utility Receptacle		
	4 Control Panel-Regulator (ac)	Gen. Electric	3S2781F125A1
	1 Battery Relay	Hartman	A718K
	4 Line & Bus Tie Contactor	Gen. Electric	729C572
	4 Back-Up Contactors (ac)		
	1 Bus Tie Contactor (dc)	Hartman	A876
	4 Constant Speed Drive (Including disconnect)	Gen. Electric	2CLKH40B1
	4 Constant Speed Drive Load Controller	Gen. Electric	672B750
	4 Generator - 40 KVA, 6000 RPM	Gen. Electric	2CM211A1
	2 Control Switch (for ground starter equipment)		
	1 Electrical Receptacle (for ground starter equipment)	AIResearch (7-pin connector)	



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APPENDIX I - C

ELECTRICAL EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quantity	Description	Manufacturer	Part or Spec Number
AR	Electrical Equipment Racks		
AR	Fuel Quantity Power Units		
AR	Fuel Quantity Power Unit Mounting Racks		
4	Loadmeters (d-c)	Gen. Electric	8 DW 84AA02
4	Loadmeters (a-c)	Gen. Electric	8 AW 61AA02
1	Voltmeter (d-c)	Gen. Electric	8 DW 84VVM2
1	Voltmeter (a-c)	Gen. Electric	8 AW 61VVM2
2	Transformers, 1-Phase Stepdown	Osborne	6781
2	Transformers, 3-Phase	Osborne	6784
1	Battery, Storage (24 volt or 2-12 volt)- Nickel - Cadmium		
1	Position Light Flasher		
1	Warning Horn		
2	Power Failure Warning Units	Hartman	AV-869
	Flap Take-Off Warning Horn		
	Interrupter		
4	Ignition Switches	Micro	V3-1
4	Reverse Current Relays	Hartman	A-718K
1	External Power receptacle (A-C) (AN 3114-1F)	Cannon Elec.	17175-106
		Burton Elec.	255
		Joy Mfg. Co.	AG-437M6
		A & J Anderson	4627
1	External Power Relay	Gen. Electric	A8745
4	Transformer Rectifier	Chatham	28V850
2	Flare Release Solenoids		
6	Shaver Outlet Receptacles		
1	Utility Receptacle		
4	Control Panel-Regulator (A-C)	Gen. Electric	332781F125A1
1	Battery Relay	Hartman	A718K
4	Line & Bus Tie Contactor	Gen. Electric	B-124A
4	Back-Up Contactors (A-C)		
1	Bus Tie Contactor (D-C)	Hartman	A876
4	Constant Speed Drive (Including Disconnect)	Gen. Electric	2C1KH40B1
4	Constant Speed Drive Load Controller	Gen. Electric	672B750
4	Generator-40 KVA, 6000 RPM	Gen. Electric	2CM211A1
2	Control Switch (for ground starter equipment)		
1	Electrical Receptacle (for ground starter equipment)	AIRResearch (7-pin connector)	

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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	80079-2
1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman	B26395-10-007
1	Cabin Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
1	Magnetic Compass	U. S. Gauge	C-4B
4	Exhaust Temperature Indicator	Honeywell	JG246A-2
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Reverse Thrust Indicating and Intransit Light	Korry	Base STZ60-AD Cap 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base ST390C Cap S3V1-1A
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	535461
2	Warning Light, Cabin Compressor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4

MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487



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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
4	Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
48	Fuel Quantity Probes	Simmonds Aerocess. 2 ea.	381056-02143 through 381056-02150, 381056-02152, 381056-02277 through 381056-02284, 381056-02286, 381056-02288 through 381056-02293
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01669
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01670
2	Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #1 and #4	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582
4	Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
1	Cabin Temperature Indi- cator	Lewis Eng.	162C21
1	Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
4	Tachometer Indicator	Gen. Electric	8DJ81-LAB-1
1	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-Y1
2	Flap Position Transmitter	Gen. Electric	8TJ39AAH-1
2	Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
2	Turn and Slip Indicator (Electric)	Pioneer Central	3924-1AG-B1-1
2	Clocks	Wakmann	W33-7530-10
2	Pressure Indicator (Hydraulic)	U.S. Gauge	SRL-07J
4	Hydraulic Pump Failure Light	Korry	MV1-1

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INSTRUMENTS AND RELATED EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	80079-2
1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman Pioneer Central	B26395-10-004 1653-6AB-A6-1
1	Cabin Rate of Climb Indi- cator	U.S. Gauge	C-4B
1	Magnetic Compass	Honeywell	JG246A-2
4	Exhaust Temperature Indi- cator	Kollsman	B29187-10-001
4	Indicator Engine Pressure Ratio	Korrry	Base ST260-AD Cap, 2HV5-3
4	Reverse Thrust Indicating and Intransit Light	Korrry	ST-260-2HV5-2 (Dual)
4	Oil Pressure Low Ind. Light	Korrry	Base, ST390C Cap, S3V1-1A 54B-1A
2	Marker Beacon Ind. Light Assy	Lewis Eng.	161BCL2
1	Free Air Temperature Bulb	Ham. Standard	527732
1	Ram Air Temperature Indica- tor	Ham. Standard	535461
2	Indicator, Cabin Compressor Bearing Temperature	Korrry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121- 313 (Cap) MV1-4
2	Indicator, Turbine Tachometer Cabin Compressor (RPM Comp Ind)		
2	Warning Light, Cabin Com- pressor Overspeed Trip		

MACH/AIRSPPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487



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## APPENDIX I-C INSTRUMENTS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393012-01642
4	Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
48	Fuel Quantity Probes	Simmonds Aerocess. 2 ea.	381056-02280 through 381056-02284 381056-02286 381056-02288 through 381056-02293 381056-02143 through 381056-02150 381056-02152 381056-02277 381056-02278 381056-02279
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01581
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter-Pointer-Type) Tanks #1 and #4	Simmonds Aerocess.	393022-01581
2	Fuel Quantity Ind. (Counter-Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582
4	Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
4	Tachometer Indicator	Gen. Electric	8DJ81-LAB-Y2
1	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-Y1
2	Flap Position Transmitter	Gen. Electric	8TJ39AAH-1
2	Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
2	Turn and Slip Indicator (Electric)	Pioneer Central	3924-1AQ-B1-1
2	Clocks	Wakmann	W33-7530-10
2	Pressure Indicator (Hydraulic)	U. S. Gauge	SRL-07L
4	Hydraulic Pump Failure Light	Korrry	MV1-1

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APPENDIX I-C  
INSTRUMENTS AND RELATED EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
B	1 Fuel Quantity Totalizer		
C	Indicator	Simmonds Aerocess.	393012-01642
	4 Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
	2 Fuel Quantity Probes	Simmonds Aerocess.	381056-01277
D	30 Fuel Quantity Probes	Simmonds Aerocess.	2 ea. 381056-02278 thru 381056-02292
A	2 Fuel Quantity Indicator		
	Repeater	Simmonds Aerocess.	383093-01581
7	2 Fuel Quantity Indicator		
	Repeater	Simmonds Aerocess.	383093-01582
E	2 Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #1 and #4	Simmonds Aerocess.	393022-01581
F	2 Fuel Quantity Ind. (Counter- Pointer-Type) Tanks #2 and #3	Simmonds Aerocess.	393022-01582
	4 Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
	1 Cabin Temperature Indicator	Lewis Eng.	162C21
	1 Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
	4 Tachometer Indicator	Gen. Electric	8DJ81-LAB-Y2
	1 Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-Y1
	2 Flap Position Transmitter	Gen. Electric	8TJ39AAH-1
	2 Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
	2 Turn and Slip Indicator (Electric)	Pioneer Central	3924-1AG-B1-1
	2 Clocks	Wakmann	W33-7530-10
	2 Pressure Indicator (Hydraulic)	U. S. Gauge	SRL-07L
	4 Hydraulic Pump Failure Light	Korry	MV1-1
	1 Anti-Icing and Structural Temperature Overhead Indicator	Fenwal	135517
	1 Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
	1 Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman	B26395-10-004
	1 Cabin Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
	1 Magnetic Compass	U. S. Gauge	C-4B
	4 Exhaust Temperature Indicator	Honeywell	JG246A-1



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**APPENDIX I-C**

**INSTRUMENTS AND RELATED EQUIPMENT**

**CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec. Number
19B 1	Fuel Quantity Totalizer Indicator	Simmonds	393012-01642
19C Aerocess.			
50 4	Fuel Quantity Compensators	Simmonds	30047-13001
58 Aerocess.			
19D 2	Fuel Quantity Probes	Simmonds	381056-01277
50A Aerocess.			
147 30	Fuel Quantity Probes	Simmonds (2 ea)	381056-02278
19E Aerocess.thru			381056-02292
2	Fuel Quantity Indicator Repeater	Simmonds	383093-01581
		Aerocess.	
2	Fuel Quantity Indicator Repeater	Simmonds	383093-01582
		Aerocess.	
2	Fuel Quantity Ind. (Counter-Pointer-Type)	Simmonds	393022-01581
		Aerocess.	
2	Fuel Quantity Ind. (Counter-Pointer-Type)	Simmonds	393022-01582
		Aerocess.	
4	Fuel Flow Indicator	Gen. Electric	8DJ97LAA-1
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Remote Temp. Ind. Sensor and XMTR		MS-28034-3
4	Tachometer Indicator	Gen. Electric	8DJ81-LAB-1
1	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-1
2	Flap Position Transmitter		
2	Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
2	Turn and Slip Indicator (electric)	Pioneer Cent.	3924-1AG-B1-1
2	Clocks	Wakmann	W33-7530-10
2	Pressure Indicator (hydraulic)	U.S. Gauge	SRL-07K
4	Hydraulic Pump Failure Light	Korry	MV1-1
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	135517
1	Dual-Supercharger Air Flow Ind.	Ham. Standard	537325
1	Dual-Cabin Altitude and Differential Pressure Indicator	Kollsman	B26395-10-004
1	Cabin Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
1	Magnetic Compass	U.S. Gauge	C-4B
4	Exhaust Temperature Indicator	Honeywell	JG 116A TYPE



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## APPENDIX I-C INSTRUMENTS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393006-20585
4	Fuel Quantity Compensators	Simmonds Aerocess.	30047-13001
2	Fuel Quantity Probes	Simmonds Aerocess.	381056-01277
30	Fuel Quantity Probes	Simmonds (2 ea) Aerocess. thru	381056-02278 381056-02292
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01581
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter Pointer Type)	Simmonds Aerocess.	383053-05581
2	Fuel Quantity Ind. (Counter Pointer Type)	Simmonds Aerocess.	383053-05582
4	Fuel Flow Indicator		
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Temperature Bulb		
4	Tachometer Indicator	Gen. Electric	8DJ81-LAB
1	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-1
2	Flap Position Transmitter		
2	Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
2	Turn and Bank Indicator (electric)	Pioneer Cent. Wakmann	3924-1AG-B-1 W33-7530-10
2	Clocks	U.S. Gauge	SRL-07 plus range markings
2	Pressure Indicator (hydraulic)		
4	Hydraulic Pump Failure Light		
AR	Anti-icing Air Temperature Ind.		
AR	Structural Temperature Over Heat Indicator		
1	Dual Supercharger Air Flow Ind.	Ham. Standard	537325
1	Dual Cabin Altitude and Dif- ferential Pressure Indicator	Kollsman Pioneer Cent.	B26395-10-004 1653-6AB-A6-1
1	Cabin Rate of Climb Indicator	U.S. Gauge	C-4B
1	Magnetic Compass	Sperry	
2	Artificial Horizons (4 inch)	Honeywell	JG 116A TYPE
4	Exhaust Temperature Indicator		



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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
1	Fuel Quantity Totalizer Indicator	Simmonds Aerocess.	393006-20585
4	Fuel Quantity Compensators	Simmonds Aerocess.	300047-13001
2	Fuel Quantity Probes	Simmonds Aerocess.	381056-01277
30	Fuel Quantity Probes	Simmonds Aerocess.	(2 ea) 381056-02278 thru 381056-02292
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01581
2	Fuel Quantity Indicator Repeater	Simmonds Aerocess.	383093-01582
2	Fuel Quantity Ind. (Counter Pointer Type)	Simmonds Aerocess.	383053-05581
2	Fuel Quantity Ind. (Counter Pointer Type)	Simmonds Aerocess.	383053-05582
4	Fuel Flow Indicator		
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Temperature Bulb		
4	Tachometer Indicator	Gen. Electric	GDJ81-LAB
1	Flap Position Indicator - Dual	Gen. Electric	GDJ91LAB-1
2	Flap Position Transmitter		
2	Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
2	Turn and Bank Indicator (electric)	Pioneer Cent.	3920-1AD-A1-1
2	Clocks	Wakmann	W33-7530-10
2	Pressure Indicator (hydraulic)	U.S. Gauge	SN-07 plus range markings
4	Hydraulic Pump Failure Light		
AR	Anti-icing Air Temperature Ind.		
AR	Structural Temperature Over Heat Indicator		
1	Dual Supercharger Air Flow Ind.	Ham. Standard	537325
1	Dual Cabin Altitude and Dif- ferential Pressure Indicator	Kollsman	B26395-10-004
1	Cabin Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
1	Magnetic Compass	U.S. Gauge	C-4B
2	Artificial Horizons (4 inch)	Sperry	
4	Exhaust Temperature Indicator	Honeywell	JG 116A TYPE



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APPENDIX I - C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
1	Fuel Quantity Totalizer Indicator	Simmonds	383053-04585
		Aerocess.	
4	Fuel Quantity Compensators	Simmonds	300047-13001
		Aerocess.	
2	Fuel Quantity Probes	Simmonds	381056-01277
		Aerocess.	
30	Fuel Quantity Probes	Simmonds ((2 ea)	381056-02278)
		Aerocess. thru	381056-02292)
2	Fuel Quantity Indicator Repeater	Simmonds	383093-01581
		Aerocess.	
2	Fuel Quantity Indicator Repeater	Simmonds	383093-01582
		Aerocess.	
2	Fuel Quantity Ind.(Counter Pointer Type)	Simmonds	383053-01581
		Aerocess.	
2	Fuel Quantity Ind.(Counter Pointer Type)	Simmonds	383053-01582
		Aerocess.	
4	Fuel Flow Indicators		
1	Cabin Temperature Indicator	Lewis Eng.	162C21
1	Cabin Temperature Bulb		
4	Tachometer Indicators	Gen. Electric	8DJ81-LAB
1	Flap Position Indicator - Dual	Gen. Electric	8DJ91LAB-1
2	Flap Position Transmitter		
2	Rate of Climb Indicators	Pioneer Cent.	1653-6AB-A6-1
2	Turn and Bank Indicators (electric)	Pioneer Cent.	3920-1AD-A1-1
2	Clocks	Wakeman	W33-7530-10
2	Pressure Indicators (hydraulic)	U.S. Gauge	SRL-07 plus range markings
4	Hydraulic Pump Failure Light		
AR	Anti-icing Air Temperature Indicator		
AR	Structural Temperature Over Heat Indicator		
1	Dual Supercharger Air Flow Indicator		
1	Dual Cabin Altitude & Differential Pressure Indicator	Kollsman	B26395-10-004
1	Cabin Rate of Climb Indicator	Pioneer Cent.	1653-6AB-A6-1
1	Magnetic Compass	U.S. Gauge	C-4B
2	Artificial Horizons (4 inch)	Sperry	
4	Exhaust Temperature Indicators	Honeywell	JG 116A TYPE
4	Indicator Engine Pressure Ratio	Kollsman	A29187-10-001
4	Reverse Thrust Indicating Lights		
4	Fuel Tank Low Pressure Indicator Light		
4	Oil Pressure Low Indicator Light		
2	Marker Beacon Indicator Light Assembly		



APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
1	Fuel Quantity Totalizer Indicator		
AR	Fuel Quantity Compensators		
AR	Fuel Quantity Probes		
AR	Fuel Quantity Indicators (direct reading)		
4	Fuel Quantity Indicators		
4	Fuel Flow Indicators		
1	Cabin Temperature Indicator		
1	Cabin Temperature Bulb		
1	Cockpit Temperature Indicator		
1	Cockpit Temperature Bulb		
4	Tachometer Indicators		
1	Flap Position Indicator - Dual		
2	Flap Position Transmitter		
2	Rate of Climb Indicators		
2	Turn and Bank Indicators (electric)		
2	Clocks		
2	Pressure Indicators (hydraulic)		
4	Hydraulic Pump Failure Light		
AR	Anti-icing Air Temperature Indicator		
AR	Structural Temperature Over Heat Indicator		
2	Cabin Supercharger Oil Tempera- ture Indicator		
2	Compressor Lube Oil Pressure Indicator, Synchro.		
1	Dual Supercharger Air Flow Indicator		
2	Cabin Compressor Duct Pressure Indicator		
1	Cabin Altitude Indicator		
1	Cabin Rate of Climb Indicator		
1	Magnetic Compass		
2	Artificial Horizons (4 inch)	Sperry	
4	Exhaust Temperature Indicators		
4	Pressure Ratio Indicators		
4	Reverse Thrust Indicating Lights		
4	Fuel Tank Low Pressure Indicator Light		
4	Oil Pressure Low Indicator Light		
2	Marker Beacon Indicator Light Assembly		
1	Outside Air Temperature Bulb		
1	Outside Air Temperature Indicator		



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# APPENDIX I-C

## INSTRUMENTS AND RELATED EQUIPMENT

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Rate-of-Climb Indicator	Pioneer Central	1653-6AB-A6-1
2	Turn and Slip Indicator (Electric)	Pioneer Central	3924-1AG-B1-1
2	Clocks	Wakmann	W33-7530-10
2	Pressure Indicator (Hydraulic)	U. S. Gauge	SRL-07J
2	Pressure Indicator (Hydraulic)	U. S. Gauge	SRL-07K
4	Hydraulic Pump Failure Light	Korry	MV1-1
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	80079-2
1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman	B26395-10-007
1	Cabin Rate of Climb Indi- cator	Pioneer Cental	1653-6AB-A6-1
1	Magnetic Compass	U. S. Gauge	C-4B
4	Exhaust Temperature Indi- cator	Honeywell	JG246A-2
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Indicator Engine Pressure Ratio	Kollsman	C29187-10-001
4	Reverse Thrust Indicating and In-Transit Light	Korry	Base STZ60-AD Cap 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base ST390C Cap S3V1-1A
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1	Ram Air Temperature Indi- cator	Lewis Eng.	161BCL2

Effective Ships 1 through 13  
Effective Ships 14 and on



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Anti-Icing and Structural Temperature Overheat Indicator	Fenwal	80079-2
1	Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
1	Dual - Cabin Altitude and Differential Pressure Indicator	Kollsman Pioneer Central	1653-6AB-A6-1
1	Cabin Rate of Climb Indicator	U.S. Gauge	C-4B
1	Magnetic Compass	Honeywell	JG246A-2
4	Exhaust Temperature Indicator	Kollsman	B29187-10-001
4	Indicator Engine Pressure Ratio	Korry	Base STZ60-AD
4	Reverse Thrust Indicating and Intransit Light	Korry	Cap, 2HV5-3
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base, ST390C
1	Free Air Temperature Bulb	Lewis Eng.	Cap, S3V1-1A
1	Ram Air Temperature Indicator	Lewis Eng.	54B-1A
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	161BCL2
2	Indicator, Turbine Tachometer Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	527732
2	Warning Light, Cabin Compressor Overspeed Trip	Ham. Standard	535461
		Korry Mfg. Co.	(Socket) ST136-A9
			(Bulb) AN3121-313
			(Cap) MV1-4

MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
19E 216 19F 59A	1 Anti-Icing and Structural Temperature Overhead Indicator	Fenwal	135517
	1 Indicator, Air Flow Cabin Compressor - Dual	Ham. Standard	537325
	1 Dual - Cabin Altitude and Differential Pressure Indicator	Kollman	B26395-10-004
	1 Cabin Rate of Climb Indicator	Pioneer Central	1653-6AB-A6-1
	1 Magnetic Compass	U.S. Gauge	C-4B
	4 Exhaust Temperature Indicator	Honeywell	JQ246A-1
	4 Indicator Engine Pressure Ratio	Kollman	B29187-10-001
	4 Reverse Thrust Indicating and Intransit Light	Korry	Cap, 2HV5-3
	4 Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (Dual)
	2 Marker Beacon Ind. Light Assy.	Korry	Base, ST390 Cap, S3V1-1 54B-1A
	1 Free Air Temperature Bulb	Lewis Eng.	
	1 Ram Air Temperature Indicator	Lewis Eng.	161BCL2
	2 Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
	2 Indicator, Turbine Tachometer Cabin Compressor (RPM Comp Ind)	Ham. Standard	535461
	2 Warning Light, Cabin Compressor Overspeed Trip	Korry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4

MACH/AIRSPD WARNING SYSTEM

1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Pioneer Central	Type 31000
1	Interrupter	Radar Relay Inc.	R-1487



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Reverse Thrust Indicating and Intransit Light	Korry	Base, ST260-AD
4	Oil Pressure Low Ind. Light	Korry	Cap, 2HV5-3 ST-260-2HV5-2 (Dual)
2	Marker Beacon Ind. Light Assy	Korry	Base, ST390
1	Free Air Temperature Bulb	Lewis Eng.	Cap, S3V1-1
1	Ram Air Temperature Indicator	Lewis Eng.	54B-1A
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	161BCL2
2	Indicator, Turbine Tachometer Cabin Compressor (RPM Comp Ind)	Ham. Standard	527732
2	Warning Light, Cabin Compressor Overspeed Trip	Korry Mfg. Co.	535461 (Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MV1-4

MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Pioneer Central	Type 31000
1	Interrupter	Radar Relay Inc.	R-1487

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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Reverse Thrust Indicating Light		
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (dual)
2	Marker Beacon Ind. Light Assy	Korry	Base-St390 Cap-83V1-1
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer, Cabin Compressor	Ham. Standard	535461
2	Warning Light, Cabin Compres- sor Overspeed Trip		
<u>MACH/AIRSPEED WARNING SYSTEM</u>			
1	Warning Bell	Edwards	168-2C
1	Mach/Airspeed Switch	Pioneer/ Central	Type 31000
1	Interrupter	Radar Relay Inc.	R-1487"



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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part of Spec. Number
4	Indicator Engine Pressure Ratio	Kollsman	B29187-10-001
4	Reverse Thrust Indicating Light		
4	Oil Pressure Low Ind. Light	Korry	ST-260-2HV5-2 (dual)
2	Marker Beacon Ind. Light Assy	Korry	Base-St390 Cap-S3V1-1
1	Free Air Temperature Bulb	Lewis Eng.	54B-1A
1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer, Cabin Compressor	Ham. Standard	535461
2	Warning Light, Cabin Compres- sor Overspeed Trip		

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## APPENDIX I-C

### INST. UNITS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED

Qty eqd	Description	Manufacturer	Part or Spec. Number
4	Indicator Engine Pressure Ratio	Kollsman	A29187-10-001
4	Reverse Thrust Indicating Light		
4	Fuel Tank Low Pres. Ind. Light		
4	Oil Pressure Low Ind. Light		
2	Marker Beacon Ind. Light Assy		
1	Outside Air Temperature Bulb	Lewis Eng.	548-1
1	Ham Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
2	Indicator, Turbine Tachometer, Cabin Compressor	Ham. Standard	535461
2	Warning Light, Cabin Compres- sor Overspeed Trip		



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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Read	Description	Manufacturer	Part or Spec Number
1	Outside Air Temperature Bulb	Lewis Eng.	54B-1
1	Ram Air Temperature Indicator	Lewis Eng.	161BCL2
2	Indicator, Cabin Compressor Bearing Temperature		
2	Indicator, Turbine Tachometer, Cabin Compressor		
2	Warning Light, Cabin Compressor Low Oil Pressure		
2	Warning Light, Cabin Compressor Overspeed Trip		



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
19E 216 19F 259A 19G 302 302A .29 19I	Ø2 Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	527732
ØØ2	Indicator, Cabin Compressor Bearing Temperature	Ham. Standard	562623 or
Ø2	Indicator, Turbine Tachom- eter Cabin Compressor (RPM Comp. Ind.)	Fenwal	80062-5
ØØ2	Indicator, Turbine Tachom- eter Cabin Compressor (RPM Comp. Ind.)	Ham. Standard	535461
2	Warning Light, Cabin Com- pressor Overspeed Trip	Ham. Standard	562208
*1	Dual - Indicator, Compressor Inlet and Compressor Out- let Temperature	Korrry Mfg. Co.	(Socket) ST136-A9 (Bulb) AN3121-313 (Cap) MVL-4

MACH/AIRSPEED WARNING SYSTEM

1	Warning Bell	Sperti-Faraday	80364 Type J-3
1	Mach-Airspeed Switch	Aero Mechanisms	6249
1	Interrupter	Radar Relay Inc.	R-1487

\*Effective Ships 14 and on

ØEffective Ships 1 through 10  
ØØEffective Ships 11 and on





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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>REMOTE COMPASS SYSTEM (SPERRY C-10)</u>			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-623
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	*1 Servo Amplifier	Sperry	618379
	**1 Servo Amplifier	Sperry	1783867-1
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
<u>AUTO PILOT</u>			
1	Stabilizer Computer, consisting of:	Sperry	1776002-5
	1 Servo Amplifier	Sperry	619298-5
	2 Servo Amplifier	Sperry	619298-4
	1 Safety Monitor	Sperry	1775389-1
	1 Trim Coupler	Sperry	1775390-7
	1 Stabilizer Computer Rack	Sperry	1776258-1
1	Flight Control Computer, consist- ing of:		
	1 Yaw Command Computer	Sperry	1776003-21
	1 Roll Command Computer	Sperry	620134-3
	1 Pitch Command Computer	Sperry	1775339-3
	1 Radio Coupler	Sperry	1775391-4
			1775388-4 or 1782104-4
	1 Pressure Computer	Sperry	1775882-10 or 1784027
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	2585297
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
1	Rudder Servo Drive	Sperry	615743-09

\*Effective Ships 1 through 13  
\*\*Effective Ships 14 and on

Rev. 7-18-61

APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>REMOTE COMPASS SYSTEM (SPERRY C-10)</u>			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-623
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
<u>AUTO PILOT</u>			
1	Stabilizer Computer, consisting of:	Sperry	1776002-5
	1 Servo Amplifier	Sperry	619298-5
	2 Servo Amplifier	Sperry	619298-4
	1 Safety Monitor	Sperry	1775389-1
	1 Trim Coupler	Sperry	1775390-7
	1 Stabilizer Computer Rack	Sperry	1776258-1
1	Flight Control Computer, Con-		
	sisting of:	Sperry	1776003-21
	1 Yaw Command Computer	Sperry	620134-3
	1 Roll Command Computer	Sperry	1775339-3
	1 Pitch Command Computer	Sperry	1775391-4
	1 Radio Coupler	Sperry	1775388-4 or
			1782104-4
	1 Pressure Computer	Sperry	1775882-10 or
			1784027
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	2585297
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
1	Rudder Servo Drive	Sperry	615743-09
1	Elevator Servo Drive	Sperry	615743-03
1	Aileron Servo Drive	Sperry	615743-10
3	Servo Bracket	Sperry	615144-01
1	*Yaw Damper Tester	Sperry	1777967-1
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-5
1	Trim Servo Motor and Drive	Sperry	1778879-21
1	Autopilot Trim Servo Bracket	Sperry	1780310
1	**Computer, Flight Director	Sperry	1780607-3
1	**Switch, Mode Selector	Sperry	1778905-2

\*Effective Ships 1 through 13.

\*\*Effective Ships 14 and on.



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Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>REMOTE COMPASS SYSTEM (SPERRY C-10)</u>			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-623
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
<u>AUTO PILOT</u>			
1	Stabilizer Computer, consisting of:	Sperry	1776002-5
	1 Servo Amplifier	Sperry	619298-5
	2 Servo Amplifier	Sperry	619298-4
	1 Safety Monitor	Sperry	1775389-1
	1 Trim Coupler	Sperry	1775390-7
	1 Stabilizer Computer Rack	Sperry	1776258-1
1	Flight Control Computer, consisting of:	Sperry	1776003-21
	1 Yaw Command Computer	Sperry	620134-3
	1 Roll Command Computer	Sperry	1775339-3
	1 Pitch Command Computer	Sperry	1775391-4
	1 Radio Coupler	Sperry	1775388-4 or 1782104-4
	1 Pressure Computer	Sperry	1775882-10 or 1784027
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	2585297
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
1	Rudder Servo Drive	Sperry	615743-09
1	Elevator Servo Drive	Sperry	615743-03
1	Aileron Servo Drive	Sperry	615743-10
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967-1
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-5
1	Trim Servo Motor and Drive	Sperry	1778879-21
1	Autopilot Trim Servo Bracket	Sperry	1780310

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>REMOTE COMPASS SYSTEM (SPERRY C-10)</u>			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-623
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
<u>AUTO PILOT</u>			
1	Stabilizer Computer, consist- ing of:	Sperry	1776002-5
	3 Servo Amplifier	Sperry	619298-1
	1 Safety Monitor	Sperry	1775389-1
	1 Trim Coupler	Sperry	1775390TBA
	1 Stabilizer Computer Rack	Sperry	1776258-1
1	Flight Control Computer, con- sisting of:	Sperry	1776003-2
	1 Yaw Command Computer	Sperry	620134-3
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-2
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
3	Servo Drive	Sperry	615743-13
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967-1
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	1778879-41
1	Autopilot Trim Servo Bracket	Sperry	1780310



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>REMOTE COMPASS SYSTEM (SPERRY C-10)</u>			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-623
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
1	Servo Amplifier	Sperry	618379
1	Slaving Amplifier	Sperry	621107
1	Rack	Sperry	614937-10
<u>AUTO PILOT</u>			
1	Stabilizer Computer, consisting of:	Sperry	1776002-3
3	Servo Amplifier	Sperry	619298-1
1	Safety Monitor	Sperry	1775389
1	Trim Coupler	Sperry	1775390
1	Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer, consisting of:	Sperry	1776003-2
1	Yaw Command Computer	Sperry	620134-3
1	Roll Command Computer	Sperry	1775339
1	Pitch Command Computer	Sperry	1775391
1	Radio Coupler	Sperry	1775388
1	Pressure Computer	Sperry	1775882-4
1	Interlock Rack	Sperry	1775392-2
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
3	Servo Drive	Sperry	615743-13
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	1778879-41
1	Autopilot Trim Servo Bracket	Sperry	1780310

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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
	REMOTE COMPASS SYSTEM (SPERRY C-10)		
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-620
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
	AUTO PILOT		
1	Stabilizer Computer, consisting of:	Sperry	1776002-3
	3 Servo Amplifier	Sperry	619298-1
	1 Safety Monitor	Sperry	1775389
	1 Trim Coupler	Sperry	1775390
	1 Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer, consisting of:	Sperry	1776003-1
	1 Yaw Command Computer	Sperry	620134
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
3	Servo Drive	Sperry	615743-03
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	1778879-41
1	Trim Servo Sprocket and Bracket	Sperry	1780310



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APPENDIX I-C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
REMOTE COMPASS SYSTEM (SPERRY C-10)			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-620
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
AUTO PILOT			
1	Stabilizer Computer, consisting of:	Sperry	1776002-1
	3 Servo Amplifier	Sperry	619298-1
	1 Safety Monitor	Sperry	1775389
	1 Trim Coupler	Sperry	1775390
	1 Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer, consisting of:	Sperry	1776003-3
	1 Yaw Command Computer	Sperry	620134
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
3	Servo Drive	Sperry	615743-03
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	669388-11
1	Trim Servo Sprocket and Bracket	Sperry	669352



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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
REMOTE COMPASS SYSTEM (SPERRY C-10)			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-620
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
AUTO PILOT			
1	Stabilizer Computer, consist- ing of:	Sperry	1776002-1
	3 Servo Amplifier	Sperry	619298-1
	1 Safety Monitor	Sperry	1775389
	1 Trim Coupler	Sperry	1775390
	1 Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer, con- sisting of:	Sperry	1776003-3
	1 Yaw Command Computer	Sperry	620134
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-03
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
3	Servo Drive	Sperry	615743-03
3	Servo Bracket	Sperry	615144-01
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	669388-11
1	Trim Servo Sprocket and Bracket	Sperry	669352



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APPENDIX I - C

INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
REMOTE COMPASS SYSTEM (SPERRY C-10)			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-620
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937 -10
AUTO PILOT			
1	Stabilizer Computer	Sperry	1776002-1
	Consisting of:		
	3 Servo Amplifier	Sperry	619298-1
	1 Safety Monitor	Sperry	1775389
	1 Trim Coupler	Sperry	1775390
	1 Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer	Sperry	1776003-3
	Consisting of:		
	1 Yaw Command Computer	Sperry	620134
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
2	Servo Drive	Sperry	615743-03
2	Servo Bracket	Sperry	615144-01
1	Rudder Actuator	Sperry	1777968
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	669388-11
1	Trim Servo Sprocket and Bracket	Sperry	669352



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
REMOTE COMPASS SYSTEM (SPERRY C-10)			
2	Flux Valve	Sperry	620359
2	Remote Compass Indicator C-6L	Sperry	1777213-620
2	Direction Gyro	Sperry	613260-2
2	Rack Assembly, consisting of:		
	1 Servo Amplifier	Sperry	618379
	1 Slaving Amplifier	Sperry	621107
	1 Rack	Sperry	614937-10
AUTO PILOT			
1	Stabilizer Computer	Sperry	1776002-1
	Consisting of:		
	3 Servo Amplifier	Sperry	619298-1
	1 Automatic Cutoff	Sperry	1775389
	1 Trim Coupler	Sperry	1775390
	1 Stabilizer Computer Rack	Sperry	1776258
1	Flight Control Computer ✓	Sperry	1776003-3
	Consisting of:		
	1 Yaw Command Computer	Sperry	620134
	1 Roll Command Computer	Sperry	1775339
	1 Pitch Command Computer	Sperry	1775391
	1 Radio Coupler	Sperry	1775388
	1 Pressure Computer	Sperry	1775882-4
	1 Interlock Rack	Sperry	1775392-3
1	Vertical Gyro	Sperry	617926-1
1	Gain Calibrator	Sperry	1776710-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
2	Servo Drive	Sperry	615743-03
2	Servo Bracket	Sperry	615144-01
1	Rudder Actuator	Sperry	1777968
1	Yaw Damper Tester	Sperry	1777967
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-1
1	Trim Servo Motor and Drive	Sperry	669388-11
1	Trim Servo Sprocket and Bracket	Sperry	669352



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### INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
REMOTE COMPASS SYSTEM			
2	Flux Valve	Sperry C-6	
2	Flux Valve "J" Box		
2	Compass Amplifier		
2	Compass Indicator		
2	Compass Control		
AUTO PILOT			
1	Auto Pilot Amplifier		
1	Auto Pilot Amplifier Mount		
1	Vertical Gyro Control		
1	Auto-Approach Control Amplifier		
1	Auto-Approach Control Mount		
1	Pilot's Engaging Control		
2	Pilots' Release Switches		
1	Controller		
1	Servo Control		
1	Servo Motor and Drive Assembly (Aileron)		
1	Servo Motor and Drive Assembly (Rudder)		
1	Servo Motor and Drive Assembly (Elevator)		
3	Servo Drum and Bracket Assemblies		
1	Servo Motor and Drive Assembly (Elevator Trim Tab)		
1	Servo Sprocket and Bracket Assembly (Elevator Trim Tab)		



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec.</u> <u>Number</u>
1	Elevator Servo Drive	Sperry	615743-03
1	Aileron Servo Drive	Sperry	615743-10
3	Servo Bracket	Sperry	615144-01
1	*Yaw Damper Tester	Sperry	1777967-1
1	Auto Pilot Controller	Sperry	1776001-1
1	Auto Pilot Indicator	Sperry	1776004-5
1	Trim Servo Motor and Drive	Sperry	1778879-21
1	Autopilot Trim Servo Bracket	Sperry	1780310
1	**Computer, Flight Director	Sperry	1780607-3
1	**Switch, Mode Selector	Sperry	1778905-2

\*Effective Ships 1 through 13.  
\*\*Effective Ships 14 and on.



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Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, consisting of:		
	3 Servo Amplifier	Sperry	618379
	1 To-From Sensor	Sperry	1778007
	1 Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
*2	Indicator, Airspeed, Angle of Attack	Kollsman	A32707-10-023
**2	Indicator, Airspeed, Angle of Attack	Kollsman	B32707-10-023
***2	Indicator, Airspeed, Angle of Attack	Kollsman	B34627-10-023
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001 or B29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter-Type	Kollsman	A29247-10-006
1	Indicator, Master Static Air Temperature	Kollaman	A29257-10-001
	Control Chassis - includes:	Kollsman	A30720-00-004 or B20720-00-004
	(1) Computer Unit		
	(2) Scale Error Corrector		
	Altimeter		
2	Valve, Static System Selector	Republic	1-2560-10
1	Bulb, Master Static Air Temperature	Kollsman	68-01000-0302
1	Transmitter, Angle-of-Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-3-(HV6-2)

\*Applicable to Airplanes 1 through 4  
\*\*Applicable to Airplanes 5 through 9  
\*\*\*Applicable to Airplanes 10 through 13



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## APPENDIX I-C

### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec.</u> <u>Number</u>
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, consisting of:		
	3 Servo Amplifier	Sperry	618379
	1 To-From Sensor	Sperry	1778007
	1 Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle- of-Attack	Kollsman	A32707-10-023
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001 or B29277-10-001
2	Indicator, Mach No. Syn- chrotel Transmitter-Type	Kollsman	A29247-10-006
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - includes: (1) Computer Unit (2) Scale Error Corrector Altimeter	Kollsman	A30720-00-004 or B30720-00-004
2	Valve, Static System Se- lector	Republic	1-2560-10
1	Bulb, Master Static Air Temperature	Kollsman	68-01000-0302
1	Transmitter, Angle-of- Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-3-(HV6-2)



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INSTRUMENTS AND RELATED EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, consisting of:		
	3 Servo Amplifier	Sperry	618379
	1 To-From Sensor	Sperry	1778007
	1 Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle-of- Attack	Kollsman	A32707-10-023
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter-Type	Kollsman	A29247-10-006
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - includes: (1) Computer Unit (2) Scale Error Corrector Altimeter	Kollsman	A30720-00-004 or B30720-00-004
2	Valve, Static System Selector	Republic	1-2560-10
1	Bulb, Master Static Air Tem- perature	Kollsman	68-01000-0302
1	Transmitter, Angle-of-Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-3 (HV6-2)

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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, consisting of:		
3	Servo Amplifier	Sperry	618379
1	To-From Sensor	Sperry	1778007
1	Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error and Corrector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle- of-Attack	Kollsman	A32707-10-023
1	Indicator, Master True Air- speed	Kollsman	A29277-10-001
2	Indicator, Mach No. Syn- chrotel Transmitter-Type	Kollsman	A29247-10-006
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - includes:	Kollsman	A30720-00-004 or B30720-00-004
	(1) Computer Unit		
	(2) Scale Error Corrector Altimeter		
2	Valve, Static System Selector	Republic	5-1357-2
1	Bulb, Master Static Air Tem- perature	Kollsman	68-01000-0302
1	Transmitter, Angle-of-Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-3 (HV6-2)



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
4	Servo Amplifier Modules	Sperry	618379
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, Consisting of:		
3	Servo Amplifier	Sperry	618379
1	To-From Sensor	Sperry	1778007
1	Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error and Cor- rector Package	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle-of- Attack	Kollsman	A32707-10-016
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter-Type	Kollsman	A29247-10-004
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - Includes:	Kollsman	A30720-00-001
	(1) Computer Unit		(Does not include
	(2) Scale Error Corrector		Scale Error
	Altimeter (to be submitted separately as altimeter and scale error corrector package)		Corrector Altimeter)
2	Valve, Static System Selector	Republic	5-1357-2
1	Bulb, Master Static Air Tempera- ture	Kollsman	68-01000-0302
1	Transmitter, Angle-of-Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-HV6-2

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### INSTRUMENTS AND RELATED EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<u>ATTITUDE INDICATOR SYSTEM</u>			
1	Vertical Gyro	Sperry	617926-1
4	Servo Amplifier Modules	Sperry	618379
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, Consisting of:		
3	Servo Amplifier	Sperry	618379
1	To-From-Sensor	Sperry	1778007
1	Rack	Sperry	614937-51
<u>FLIGHT - INSTRUMENTS</u>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter and Scale Error Cor- rector Set	Kollsman	A32667-10-001
2	Indicator, Airspeed-Angle- of- Attack	Kollsman	A32707-10-016
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter-Type	Kollsman	A29247-10-004
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - Includes:	Kollsman	A30720-00-001
	(1) Computer Unit		(Does not include
	(2) Scale Error Corrector		Scale Error
	Altimeter (to be submitted separately as altimeter and scale error corrector package)		Corrector Altimeter)
2	Valve, Static System Selector	Republic	5-1357-2
1	Bulb, Master Static Air Temperature	Kollsman	68-01000-0302
1	Transmitter, Angle-of-Attack	Kollsman	68-40800-0402
1	Master Warning Light	Korry	270-IV6-2



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## APPENDIX I-C

### INSTRUMENTS AND RELATED EQUIPMENT CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
<b>ATTITUDE INDICATOR SYSTEM</b>			
1	Vertical Gyro	Sperry	617926-1
4	Servo Amplifier Modules	Sperry	618379
2	Indicator, Gyro Horizon	Sperry	1776365-622
2	Rack Assembly, Consisting of:		
	3 Servo Amplifier	Sperry	618379
	1 To-From-Sensor	Sperry	1778007
	1 Rack	Sperry	614937-51
<b>FLIGHT - INSTRUMENTS</b>			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter and Scale Error Corrector Set	Kollsman	A30417-10-001
2	Indicator, Airspeed-Angle of Attack	Kollsman	A29297-10 plus range markings A29277-10-001
1	Indicator, Master True Airspeed	Kollaman	A29247-10-001
2	Indicator, Mach No. Synchrobel Transmitter-Type	Kollsman	A29257-10-001
1	Indicator, Master Static Air Temperature	Kollman	A30720-00-001
1	Control Chassis - Includes: (1) Computer Unit (2) Scale Error Corrector Altimeter (to be submitted separately as altimeter & scale error corrector package)	Kollman	(Does not incl. Scale Error Corrector Altimeter)
2	Valve, Static System Selector	Republic	5-1357-2
1	Bulb, Master Static Air Temp.	Kollsman	68-01000-0302
1	Transmitter, Angle of Attack	Kollsman	68-40800-0401
1	Master Warning Light	Korry	270-HV6-2

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**INSTRUMENTS AND RELATED EQUIPMENT**

**CONVAIR FURNISHED - CONVAIR INSTALLED**

Qty Reqd	Description	Manufacturer	Part or Spec. Number
<b>ATTITUDE INDICATOR SYSTEM</b>			
1	Vertical Gyro	Sperry	617926-1
4	Servo Amplifier Modules	Sperry	618379
2	Gyro Horizon Remote Indicator	Sperry HZ-4	1776365-622
2	Rack Assembly, Consisting of:		
	3 Servo Amplifier	Sperry	618379
	1 To-From-Sensor	Sperry	1778007
	1 Rack	Sperry	614937-51
<b>FLIGHT - INSTRUMENTS</b>			
<b><u>Kollsman Integrated Instrument System</u></b>			
2	Altimeter Scale Error & Corrector Package	Kollsman	A30410-00-001
2	Indicator, Airspeed-Angle of Attack	Kollsman	A29297-10 plus range markings
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchronel Transmitter Type	Kollsman	A29247-10-001
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - Includes (1) Computer Unit	Kollsman	P/N to be supplied
	(2) Scale Error Connector - Altimeter	Kollsman	P/N to be supplied
2	Valve, Static System Selector	Kollsman	P/N to be supplied
1	Bulb, Master Static Air Temp.	Kollsman	68-01000-0301
1	Transmitter, Angle of Attack		



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INSTRUMENTS AND RELATED EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
ATTITUDE INDICATOR SYSTEM			
1	Vertical Gyro	Sperry	617926-1
4	Servo Amplifier Modules	Sperry	618379
2	Gyro Horizon Remote Indicator	Sperry HZ-4	1776365-622
FLIGHT - INSTRUMENTS			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter Scale Error & Corrector Package	Kollsman	A30410-00-001
2	Indicator, Airspeed-Angle of Attack	Kollsman	A29297-10 plus range markings
1	Indicator, Master True Airspeed	Kollsman	A29277-10-001
2	Indicator, Mach No. Synchrotel Transmitter Type	Kollsman	A29247-10-001
1	Indicator, Master Static Air Temperature	Kollsman	A29257-10-001
1	Control Chassis - Includes (1) Computer Unit (2) Scale Error Connector - Altimeter	Kollsman P/N to be supplied Kollsman P/N to be supplied	
2	Valve, Static System Selector	Kollsman P/N to be supplied	
1	Switch, Computer Selector	Kollsman P/N to be supplied	
1	Warning Light	Convair	
1	Bulb, Master Static Air Temp.	Kollsman	68-01000-0301
1	Transmitter, Angle of Attack		

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INSTRUMENTS AND RELATED EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
FLIGHT - INSTRUMENTS			
<u>Kollsman Integrated Instrument System</u>			
2	Altimeter	Kollsman	P/N to be supplied
2	Indicator, Airspeed-Angle of Attack	Kollsman	P/N to be supplied
1	Indicator, True Airspeed	Kollsman	P/N to be supplied
2	Indicator, Mach No. Synchronel Transmitter Type	Kollsman	P/N to be supplied
1	Indicator, True Outside Air Temperature	Kollsman	P/N to be supplied
1	Control Chassis - Includes (1) Computer Unit (2) Scale Error Connector - Altimeter	Kollsman	P/N to be supplied
2	Valve, Static System Selector	Kollsman	P/N to be supplied
1	Switch, Computer Selector	Kollsman	P/N to be supplied
1	Warning Light	Convair	
1	Bulb, Temperature, Flush Type		
1	Transmitter, Angle of Attack		



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**APPENDIX I-C  
HYDRAULIC EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec. Number
5/19C	2 Accumulator, 100 cu in.	Redco	8414-002
7/3A	2 Accumulator, 400 cu in.	Parker	1356-573354
7/19D	2 Gage, Accumulator Air, MLG	Rochester	6901-714
8/101	2 Gage, Accumulator Air, 100 cu in. and 200 cu in.	Rochester	6901-714
10/102	1 Gage, Emergency Air Brake	U.S. Gauge	AW1826AD01
12/19E	1 Gage, Emergency Air Bottle	Rochester	6901-714
17/19F	1 Auxiliary Electric Pump	N.Y. Air Brake	165W01008-2
19/261	2 Low Pressure Relief Valves	Parker Air- craft	1112-578216
22/19G	2 High Pressure Relief Valves	Pneu Draulics	1210-7
23/241	2 Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
24/313	8 Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5009
24/317	1 MLG Selector Valve	Bertea	39800-5003
25/19H	1 NLG Selector Valve	Peacock	51200-3
	2 Valves, Spoiler, Inboard	Bertea	35000-301
	2 Valves, Spoiler, Outboard	Bertea	40600-301
	4 Main System Pumps, (Variable Displacement-Type)	Vickers	AS-61695-L-2
	1 Hyd. Reservoir, System No. 1	Airite	6311-7
	1 Hyd. Reservoir, System No. 2	Airite	6312-5
	2 Flap Actuating Motors	Vickers	MP-016B007A
	2 Hydraulic Fluid Level Trans.	Simmonds	391035-01406
	2 Hydraulic Fluid Level Trans.	Simmonds	391035-02580
	4 Filters, Low Pressure	Aircraft Porous	AC-1373-16
	2 Filters, High Pressure, 5 gpm	Purolator	60878
	4 Filters, High Pressure, 16 gpm	Aircraft Porous	AC-1574-12
	2 Ground Test Return Coupling	Aeroquip	307012-S11-1D
	2 Ground Test Press. Coupling	Aeroquip	305503-S11-12D
	1 Flap Selector Valve	Bertea	38400-303
	1 Nose Gear Steering Cylinder and Valve Assembly	Cleveland Pneumatic	9818-A
	2 Check Valve (-4) 1500 psi	Parker	1112-589225
	6 Check Valve (-6) 1500 psi	Parker	1112-589226
	1 Check Valve (-10) 1500 psi	Parker	1112-589229
	11 Check Valve (-10) 3000 psi	Parker	1112-589234
	1 Check Valve (-12) 1500 psi	Parker	1112-589230
	1 Check Valve (-12) 3000 psi	Parker	1112-589235
	1 Check Valve (-16) 1500 psi	Parker	1112-589231
	1 Valve, Door Open, Emergency	Kidde	891507
	4 Filter, Pump Case Drain, 10 Micron, 6 gpm		

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## APPENDIX I-C

### HYDRAULIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Accumulator, 100 cu in.	Redco	8414-002
2	Accumulator, 400 cu in.	Parker	1356-573354
2	Gage, Accumulator Air, MLG	Rochester	6901-714
2	Gage, Accumulator Air, 100 cu in. and 200 cu in.	Rochester	6901-714
1	Gage, Emergency Air Brake	U. S. Gauge	AW1826AD01
1	Gage, Emergency Air Bottle	Rochester	6901-714
1	Auxiliary Electric Pump	N.Y. Air Brake	165W010 08-3
2	Low Pressure Relief Valves	Parker Aircraft	1112-578216
2	High Pressure Relief Valves	Pneu Draulics	1210-7
2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
8	Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5009
1	MLG Selector Valve	Bertea	39800-5003
1	NLG Selector Valve	Peacock	51200-3
2	Valves, Spoiler, Inboard	Bertea	35000-301
2	Valves, Spoiler, Outboard	Bertea	40600-301
4	Main System Pumps, (Variable Displacement-Type)	Vickers	
1	Hyd. Reservoir, System No. 1	Airite	6311-7
1	Hyd. Reservoir, System No. 2	Airite	6312-5
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406
2	Hydraulic Fluid Level Trans.	Simmonds	391035-02580
4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
2	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircraft Porous	Ac-1574-12
2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
1	Flap Selector Valve	Bertea	38400-303
1	Nose Gear Steering Cylinder and Valve Assembly	Cleveland Pneumatic	9818-A
2	Check Valve (-4) 1500 psi	Parker	1112-589225
6	Check Valve (-6) 1500 psi	Parker	1112-589226
1	Check Valve (-10) 1500 psi	Parker	1112-589229
11	Check Valve (-10) 3000 psi	Parker	1112-589234
1	Check Valve (-12) 1500 psi	Parker	1112-589230
1	Check Valve (-12) 3000 psi	Parker	1112-589235
1	Check Valve (-16) 1500 psi	Parker	1112-589231
1	Valve, Door Open, Emergency	Kidde	891507
4	Filter, Pump Case Drain, 10 Micron, 6 gpm		





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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Accumulator, Return Line	Redco	11332-001
2	Accumulator, 100 cu in.	Redco	8414-002
2	Accumulator, 400 cu in.	Parker	1356-573354
2	Gage, Accumulator Air, MLG	Rochester	6901-714
2	Gage, Accumulator Air, 100 cu in. and 200 cu in.	Rochester	6901-714
1	Gage, Emergency Air Brake	U. S. Gauge	AW1826AD01
1	Gage, Emergency Air Bottle	Rochester	6901-714
1	Auxiliary Electric Pump	N.Y. Air Brake	165W010 08-3
2	Low Pressure Relief Valves	Parker Aircraft	1112-578216
2	High Pressure Relief Valves	Pneu Draulics	1210-7
2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
8	Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5009
1	MLG Selector Valve	Bertea	39800-5003
1	NLG Selector Valve	Peacock	51200-3
2	Valves, Spoiler, Inboard	Bertea	35000-301
2	Valves, Spoiler, Outboard	Bertea	40600-301
4	Main System Pumps, (Var. Displ.)	Ham. Standard	532760
1	Hyd. Reservoir, System No.1	Airite	6311-7
1	Hyd. Reservoir, System No.2	Airite	6312-5
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406
2	Hydraulic Fluid Level Trans.	Simmonds	391035-02580
4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
2	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircraft Porous	AC-1574-12
2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
1	Flap Selector Valve	Bertea	38400-303
1	Nose Gear Steering Cyl. and Valve Assembly	Cleveland Pneumatic	9818-A
2	Check Valve (-4) 1500 psi	Parker	1112-589225
6	Check Valve (-6) 1500 psi	Parker	1112-589226
1	Check Valve (-10) 1500 psi	Parker	1112-589229
11	Check Valve (-10) 3000 psi	Parker	1112-589234
1	Check Valve (-12) 1500 psi	Parker	1112-589230
1	Check Valve (-12) 3000 psi	Parker	1112-589235
1	Check Valve (-16) 1500 psi	Parker	1112-589231
1	Valve, Door Open, Emergency	Kidde	891507
4	Filter, Pump Case Drain, 10 Micron, 6gpm		

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APPENDIX I-C

HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
C 4	Accumulator, Return Line	Redco	11332-001
2	Accumulator, 100 cu in.	Redco	8414-002
D 2	Accumulator, 400 cu in.	Parker	1356-573354
1 2	Gage, Accumulator Air, MLG	Rochester	6901-714
E 2	Gage, Accumulator Air, 100 cu in. and 200 cu in.	Rochester	6901-714
F 1	Gage, Emergency Air Brake	U. S. Gauge	AW1826AD01
1	Gage, Emergency Air Bottle	Rochester	6901-714
G 1	Auxiliary Electric Pump	N.Y. Air Brake	165W010 08-3
2	Low Pressure Relief Valves	Parker Aircraft	1112-578216
2	High Pressure Relief Valves	Pneu Draulics	1210-7
2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
8	Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5009
1	MLG Selector Valve	Bertea	39800-5003
1	NLG Selector Valve	Peacock	51200-3
2	Valves, Spoiler, Inboard	Bertea	35000-301
2	Valves, Spoiler, Outboard	Bertea	40600-301
4	Main System Pumps, (Var. Displ.)	Ham. Standard	532760
1	Hyd. Reservoir, System No.1	Airite	6311-7
1	Hyd. Reservoir, System No.2	Airite	6312-5
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406
2	Hydraulic Fluid Level Trans.	Simmonds	391035-02580
4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
2	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircraft Porous	AC-1574-12
2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
1	Flap Selector Valve	Bertea	38400-303
1	Nose Gear Steering Cyl. and Valve Assembly	Cleveland Pneumatic	9818-A
2	Check Valve (-4) 1500 psi	Parker	1112-589225
6	Check Valve (-6) 1500 psi	Parker	1112-589226
1	Check Valve (-10) 1500 psi	Parker	1112-589229
11	Check Valve (-10) 3000 psi	Parker	1112-589234
1	Check Valve (-12) 1500 psi	Parker	1112-589230
1	Check Valve (-12) 3000 psi	Parker	1112-589235
1	Check Valve (-16) 1500 psi	Parker	1112-589231
1	Valve, Door Open, Emergency	Kidde	891507



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APPENDIX I-C

HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Accumulator, Return Line	Redco	11332
2	Accumulator, 100 cu. in.	Redco	8404-001 Type A
2	Accumulator, 400 cu. in.	Parker	1356-573354
2	Gage, Accumulator Air, MLG	Rochester	6901-714
2	Gage, Accumulator Air, 100 cu. in. and 200 cu. in.	Rochester	6901-714
2	Gage, Emergency Air Bottle	Rochester	6901-714
1	Auxiliary Electric Pump	NY Air Brake	MS 2001
2	Low Pressure Relief Valves	Parker Aircraft	165W0101008-3
2	High Pressure Relief Valves	Pneu Draulics	1112-578216
2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1202-5
8	Valve, Hydraulic, Brake Shuttle	Pneu Draulics	1015-5
1	MLG Selector Valve	Bertea	5013
1	NLG Selector Valve	Peacock	39800-5003
2	Valves, Spoiler, Inboard	Bertea	51200-3
2	Valves, Spoiler, Outboard	Bertea	35000-301
4	Main System Pumps, (Var. Displ.)	Bertea	40600-301
1	Hyd. Reservoir, Primary	Ham. Standard	532760
1	Hyd. Reservoir, Secondary	Airite	6311-3
2	Flap Actuating Motors	Airite	6312-3
2	Hydraulic Fluid Level Trans.	Vickers	MS-36-3907-25ZD
4	Filters, Low Pressure	Simmonds	391035-01406
2	Filters, High Pressure, 5 gpm	Aircraft Porous	391035-02580
4	Filters, High Pressure, 16 gpm	Purolator	AC-1373-16
2	Ground Test Return Coupling	Aircraft Porous	60878
2	Ground Test Press. Coupling	Aeroquip	AC-1574-12
1	Flap Selector Valve	Aeroquip	307012-S11-1D
1	Nose Gear Steering Cyl. and Valve Assembly	Bertea	30553-S11-12D
1	Check Valve (-4) 1500 psi	Bertea	38400-301
1	Check Valve (-4) 3000 psi	Cleveland Pneumatic	9818
1	Check Valve (-6) 1500 psi	Parker	1112-589225
1	Check Valve (-10) 1500 psi	Parker	1112-589233
1	Check Valve (-10) 3000 psi	Parker	1112-589226
1	Check Valve (-12) 1500 psi	Parker	1112-589229
1	Check Valve (-12) 3000 psi	Parker	1112-589234
1	Check Valve (-16) 1500 psi	Parker	1112-589230
1	Check Valve (-16) 3000 psi	Parker	1112-589235
1	Valve, Door Open, Emergency	Kidde	1112-589231
			891507

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### HYDRAULIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Accumulator, Return Line	Redco	11332
2	Accumulator, 100 cu. in.	Redco	8404-001 Type A
2	Accumulator, 400 cu. in.	Parker	1356-573354
2	Gage, Accumulator Air, MLG	Rochester	6901-714
2	Gage, Accumulator Air, 100 cu. in. and 200 cu. in.	Rochester	6901-714
2	Gage, Emergency Air Bottle	Rochester	6901-714
1	Auxiliary Electric Pump	NY Air Brake	MS 2001 165W01008-3
2	Low Pressure Relief Valves	Parker Aircraft	1112-578216
2	High Pressure Relief Valves	Pneu Draulics	1202-5
2	Valve, Relief, 1/4" Tube Size	Pneu Draulics	1015-5
8	Valve, Hydraulic, Brake Shuttle	Pneu Draulics	5013
1	MLG Selector Valve	Bertea	39800-5001
1	NLG Selector Valve	Peacock	51200
2	Valves, Spoiler, Inboard	Bertea	35000-301
2	Valves, Spoiler, Outboard	Bertea	40600-301
4	Main System Pumps, (Var. Displ.)	Ham. Standard	532760
1	Hyd. Reservoir, Primary	Airite	6311-3
1	Hyd. Reservoir, Secondary	Airite	6312-3
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	391035-01406 391035-02580
4	Filters, Low Pressure	Aircraft Porous	AC-1373-16
2	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircraft Porous	AC-1574-12
2	Ground Test Return Coupling	Aeroquip	307012-S11-1D
2	Ground Test Press. Coupling	Aeroquip	305503-S11-12D
1	Flap Selector Valve	Bertea	38400-301
1	Nosc Gear Steering Cyl. and Valve Assembly	Cleveland Pneumatic	9818
1	Check Valve (-4) 1500 psi	Parker	1112-589225
1	Check Valve (-4) 3000 psi	Parker	1112-589233
1	Check Valve (-6) 1500 psi	Parker	1112-589226
1	Check Valve (-10) 1500 psi	Parker	1112-589229
1	Check Valve (-10) 3000 psi	Parker	1112-589234
1	Check Valve (-12) 1500 psi	Parker	1112-589230
1	Check Valve (-12) 3000 psi	Parker	1112-589235
1	Check Valve (-16) 1500 psi	Parker	1112-589231



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### HYDRAULIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
9C 4	Accumulator, Return Line	Redco	11332
A 2	Accumulator (100-cu. in.)	Redco	8404-001 Type A
9D 1	Accumulator, NLG, 200 cu. in.	Parker	1356-553604
01 2	Accumulator, 400 cu. in.	Parker	1356-573354
02 2	Gage, Accumulator Air, MLG	Rochester	6901-713
9E 2	Gage, Accumulator Air - (100) 3 in. and (200) 3 in.	Rochester	6901-715
1	Gage, Emergency Air Bottle	Rochester	6901-714
1	Auxiliary Electric Pump	NY Air Brake	MS2001-165W010(I) CSD
2	Low Pressure Relief Valves	Parker Aircraft.	1112-578216
2	High Pressure Relief Valves	Pneudraulics	1202-5
2	Valve, Relief, 1/4" Tube Size	Pneudraulics	1015-5
8	Valve, Hydraulic, Brake Shuttle	Pneudraulics	5013
1	MLG Selector Valve	Bertea	39800-5001
1	NLG Selector Valve	Peacock	51200
2	Valves, Spoiler, Inboard	Bertea	35000-301
2	Valves, Spoiler, Outboard	Bertea	35000-303
4	Main System Pump (Var Displ)	Ham Std	521415
1	Reservoir, Primary	Airite	6311
1	Reservoir, Secondary	Airite	6312
2	Flap Actuating Motors	Vickers	MS-36-3907-25ZD
2	Hydraulic Fluid Level Trans.	Simmonds	381072-37580
4	Filters, Low Pressure	Aircr. Porous	AC-1373-16
2	Filters, High Pressure, 5 gpm	Purolator	60878
4	Filters, High Pressure, 16 gpm	Aircr. Porous	AC-1574-12
2	Ground Test Coup. Half (Suct)		
2	Ground Test Return Coupling	Aeroquip	307012-811-1D
2	Ground Test Press. Coupling	Aeroquip	305503-811-12D
2	Ground Test Coupl. Cap (Suct)		
2	Ground Test Coupl. Cap (Press)		
2	Flap Selector Valve	Bertea	38400
1	Nose Landing Gear Steering Cyl. and Valve/Assembly	Cleveland	9818
AR	Check Valve		
4	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor	Vickers	MS-36-3909-25ZE
4	Firewall Shutoff Valve	Rob-Fulton	1328-10001

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HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
4	Spoiler Actuating Cyl.Inboard	Peacock	51165-5
8	Spoiler Actuating Cyl.Outboard	Peacock	51170-7
1	Stabilizer Actuating Motor	Vickers	MS-36-3909-25ZE- S-484-2
4	Firewall Shutoff Valve	Robert Fulton	1328-10001-1
1	Hydraulic Fluid Quantity Indicator (Dual)	Simmonds Acces.	393028-10645
2	Temperature Control Valve	Schroeder	C-166-01
2	Hyd. Booster Pump and Motor	Vickers	AS-15506-C
2	Main Landing Gear Actuating Cyl.	Peacock	51160-5
1	Nose Landing Gear Actuating Cyl.	Peacock	51195-3
3	MLG Priority Valve-Up	Carl Drescher Co.	52015-1
3	Pressure Transmitter	U. S. Gauge	ST-107-J
4	Pressure Switch	Hydra Electric	90018-1
2	Pressure Switch, Return Line	Hydraulic Research	93000
1	Anti-Skid Control Valve	Hydro-Aire	38-103A
4	Anti-Skid Control Valve(Dual)	Hydro-Aire	38-099A
4	Main Landing Gear Door Cyl. (Aft)	Thompson	K-51894
1	MLG Priority Valve Accumula- tor	Vinson	A70166-4
2	MLG Brake Metering Valves	Weston Hyd.	16640-2
1	NLG Brake Metering Valve	Weston Hyd.	16650-1
1	Reservoir Remote Fill Line Filter	Purolator	62289
2	Temperature Transmitter	Lewis	56B17J
1	NLG Uplatch Cylinder	Ronson	2-U-2024
2	MLG Uplatch Cylinder	Cleveland Pneumatic	9729-300B
2	Down Lock Release Cylinders	Cleveland Pneumatic	9729-100A L/R



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HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
4	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor	Vickers	MS-36-3909-25ZE
4	Firewall Shutoff Valve	Robert Fulton	1328-10001
1	Hydraulic Fluid Quantity Indicator (Dual)	Simmonds Acces.	393028-10645
1	Temperature Control Valve	Schroeder	C-166-01
2	Hyd. Booster Pump and Motor	Vickers	AS-15506-C
2	Main Landing Gear Actuating Cyl.	Peacock	51160
1	Nose Landing Gear Actuating Cyl.	Peacock	51195
1	MLG Priority Valve-Up	Carl Drescher Co.	52015
AR	Pressure Transmitter	U.S. Gauge	ST-107-J
4	Pressure Switch	Hydra Electric	90018-1
1	Pressure Switch, Return Line	Hydraulic Research	93000
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cyl. (Aft)	Thompson	K-51957
1	MLG Priority Valve Accumulator	Vinson	A70166
2	MLG Brake Metering Valves	Weston Hyd.	16640
1	NLG Brake Metering Valve	Weston Hyd.	16650
1	Reservoir Remote Fill Line Filter	Purolator	62289
2	Temperature Transmitter	Lewis	56B17J
1	NLG Up latch Cylinder	Ronson	2U2024
2	MLG Up latch Cylinder	Cleveland Pneumatic	9729-300A
2	Down Lock Release Cylinders	Cleveland Pneumatic	9729-100

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### HYDRAULIC EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
6	Spoiler Control Valve		
1	Hydraulic Fluid Qty Indicator (Dual)	Simmonds Acc.	393028-10646
1	Temperature Control Valve	Schroeder	C-166-C1
2	Temperature Bulb		
2	Hydraulic Fluid Qty Transmitter		
2	Reservoir Drain Valve		
2	Boost Pump and Motor	Vickers	AA-15500-C
4	Pressure Reducer		
2	Main Landing Gear Actuating Cyl.	Peacock	51150
1	Nose Landing Gear Actuating Cyl.	Peacock	51195
3	Landing Gear Unlatching Cyl.		
1	MLG Priority Valve-Up	Carl Drescher Co.	52015
AR	Pressure Transmitter	U.S. Gauge	ST-107-J
4	Pressure Switch		
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cyl. (aft)	Thompson	K-51957
1	Priority Valve MLG Accumulator	Vinson	A70166
2	MLG Brake Metering Valves	Weston Hyd.	16640
1	MLG Brake Metering Valve	Weston Hyd.	16650
1	Reservoir Remote Fill Line Filter	Purolator	62289
2	Temperature Transmitter	Lewis	56B174



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Qty Reqd	Description	Manufacturer	Part or Spec Number
4	Accumulator, Return Line	Redco	11332
2	Accumulator (100 cu. in.)	Redco	8404-001
1	Accumulator, NLG, 200 cu. in.	Parker	1356-553604
2	Accumulator, 400 cu. in.	Parker	1356-573354
3	Gage, Accumulator Air		
4	Main System Pump (variable displacement)	Ham. Standard	521415
1	Electric-Driven Pump		
1	Reservoir, Primary	Airite	6311
1	Reservoir, Secondary	Airite	6312
2	Flap Actuating Motor		
4	Filters Low Pressure	Airor. Porous	AC-1373-16
2	Filters High Pressure 5. GPM	Purolator	-60878
4	Filters High Pressure 16. GPM	Airor. Porous	AC-1574-12
2	Ground Test Coupl. Half (Suction)		
2	Ground Test Coupl. Half (Pressure)		
2	Ground Test Coupl. Cap (Suction)		
2	Ground Test Coupl. Cap (Pressure)		
2	Flap Selector Valve		
1	Nose Landing Gear Steering Cyl. and Valve Assembly	Cleveland	9818
AR	Metering Check Valve		
AR	Check Valve		
4	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor		
2	Main Relief Valve	Dole	80037
4	Firewall Shutoff Valve		
6	Spoiler Control Valve		
1	Hydraulic Fluid Qty Indicator (Dual)		
1	Temperature Control Valve	Dole	80034
2	Temperature Bulb		
2	Hydraulic Fluid Qty Transmitter		
2	Reservoir Drain Valve		
2	Boost Pump and Motor	Vickers	AA-15506-C
4	Pressure Reducer		
2	Main Landing Gear Actuating Cyl.	Peacock	51160
1	Nose Landing Gear Actuating Cyl.	Peacock	51195
3	Landing Gear Unlatching Cyl.		
8	Brake Shuttle Valve		
1	Priority Valve		
AR	Selector Valve		
AR	Pressure Transmitter		
4	Pressure Switch		
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cyl.	Thompson	K-51894



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HYDRAULIC EQUIPMENT  
CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
4	Accumulator, Return Line	Redco	11332
2	Accumulator (100 cu. in.)	Redco	8404-001 Type A
1	Accumulator, NLG, 200 cu. in.	Parker	1356-553604
2	Accumulator, 400 cu. in.	Parker	1356-573354
4	Gage, Accumulator Air		
4	Main System Pump (variable displacement)	Ham. Standard	521415
1	Electric-Driven Pump		
1	Reservoir, Primary	Airite	6311
1	Reservoir, Secondary	Airite	6312
2	Flap Actuating Motor		
4	Filters Low Pressure	Aircr. Porous	AC-1373-16
2	Filters High Pressure 5 GPM	Purolator	-60678
4	Filters High Pressure 16 GPM	Aircr. Porous	AC-1574-12
2	Ground Test Coupl. Half (Suction)		
2	Ground Test Coupl. Half (Pressure)		
2	Ground Test Coupl. Cap (Suction)		
2	Ground Test Coupl. Cap (Pressure)		
2	Flap Selector Valve		
1	Nose Landing Gear Steering Cyl. and Valve Assembly	Cleveland	9818
AR	Metering Check Valve		
AR	Check Valve		
4	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor		
2	Main Relief Valve	Dole	80037
4	Firewall Shutoff Valve		
6	Spoiler Control Valve		
1	Hydraulic Fluid Qty Indicator (Dual)		
1	Temperature Control Valve	Dole	80034
2	Temperature Bulb		
2	Hydraulic Fluid Qty Transmitter		
2	Reservoir Drain Valve		
2	Boost Pump and Motor	Vickers	AA-15506-G
4	Pressure Reducer		
2	Main Landing Gear Actuating Cyl.	Peacock	51160
1	Nose Landing Gear Actuating Cyl.	Peacock	51195
3	Landing Gear Unlatching Cyl.		
8	Brake Shuttle Valve		
1	Priority Valve		
AR	Selector Valve		
AR	Pressure Transmitter		
4	Pressure Switch		
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cyl.	Thompson	K-51894
2	Yaw Damper Cylinder		
1	Yaw Damper Control Valve		



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HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
4	Accumulator, Return Line	Hedco	11332
2	Accumulator (100 cu. in.)	Hedco	8404-001 Type A
1	Accumulator, NLG, 200 cu. in.	Parker	1356-553604
2	Accumulator, 400 cu. in.	Parker	1356-573354
4	Gage, Accumulator Air		
4	Main System Pump (variable displacement)	Ham. Standard	521415
1	Electric-Driven Pump		
1	Reservoir, Primary	Airite	6311
1	Reservoir, Secondary	Airite	6312
2	Flap Actuating Motor		
4	Filters Low Pressure	Aircr. Porous	AC-1373-16
2	Filters High Pressure 5.GPM	Parolator	-60878
4	Filters High Pressure 16.GPM	Aircr. Porous	AC-1574-12
2	Ground Test Coupl. Half (Suction)		
2	Ground Test Coupl. Half (Pressure)		
2	Ground Test Coupl. Cap (Suction)		
2	Ground Test Coupl. Cap (Pressure)		
2	Flap Selector Valve		
1	Nose Landing Gear Steering Cyl. and Valve Assembly	Cleveland	9818
AR	Metering Check Valve		
AR	Check Valve		
4	Spoiler Actuating Cyl. Inboard	Peacock	51165
8	Spoiler Actuating Cyl. Outboard	Peacock	51170
1	Stabilizer Actuating Motor		
2	Main Relief Valve	Dole	80037
4	Firewall Shutoff Valve		
6	Spoiler Control Valve		
1	Hydraulic Fluid Qty Indicator		
1	Temperature Control Valve	Dole	80034
2	Temperature Bulb		
1	Hydraulic Fluid Qty Transmitter		
2	Reservoir Drain Valve		
2	Boost Pump and Motor	Vickers	AA-15506-C
4	Pressure Reducer		
2	Main Landing Gear Actuating Cyl.	Peacock	51160
1	Nose Landing Gear Actuating Cyl.	Peacock	51195
3	Landing Gear Unlatching Cyl.		
8	Brake Shuttle Valve		
1	Priority Valve		
AR	Selector Valve		
AR	Pressure Transmitter		
4	Pressure Switch		
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valve (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cyl.	Thompson	K-51894
2	Yaw Damper Cylinder		
1	Yaw Damper Control Valve		



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APPENDIX I - C

HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Accumulator (100 cu. in.) ✓	Redco Tool	8404-001 Type A
6	Accumulators, Piston Type		
4	Gage, Accumulator Air		
4	Main System Pumps (variable displacement type)	Ham.-Standard	521415
1	Electric-Driven Pump		
2	Main Reservoirs		
2	Flap Actuating Motor		
4	Filters Low Pressure	Aircraft Porous	AC-1373-16
2	Filters High Pressure 5.GPM	Purolator Prod.	-60878
4	Filters High Pressure 16.GPM	Aircraft Porous	AC-1574-12
2	Ground Test Coupling Halves (Suction)		
2	Ground Test Coupling Halves (Pressure)		
2	Ground Test Coupling Caps (Suction)		
2	Ground Test Coupling Caps (Pressure)		
2	Flap Selector Valve		
1	Nose Landing Gear Steering Valve		
AR	Metering Check Valves		
AR	Check Valves		
4	Spoiler Actuating Cylinders Inboard	Peacock Eng.	51165
8	Spoiler Actuating Cylinders Outboard.	Peacock Eng.	51170
1	Stabilizer Actuating Motor		
2	Main Relief Valves	Dole Valve	80037
4	Firewall Shutoff Valves		
6	Spoiler Control Valves		
1	Hydraulic Fluid Quantity Indicator		
1	Temperature Control Valve		
2	Temperature Bulb		
4	Hydraulic Fluid Quantity Transmitter		
2	Reservoir Drain Valves		
2	Boost Pumps		
4	Pressure Reducers		
2	Main Landing Gear Actuating Cylinders		
1	Nose Landing Gear Actuating Cylinder		
3	Landing Gear Unlatching Cylinders		
8	Brake Shuttle Valves		
1	Priority Valve		
AR	Selector Valves		
AR	Pressure Transmitters		
4	Pressure Switches		
1	Anti-Skid Control Valve	Hydro-Aire	38-103
4	Anti-Skid Control Valves (Dual)	Hydro-Aire	38-099
4	Main Landing Gear Door Cylinders		
2	Yaw Damper Cylinders		
1	Yaw Damper Control Valve		



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APPENDIX I-G

HYDRAULIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
8	Accumulators, Piston Type		
4	Gage, Accumulator Air		
4	Main System Pumps (variable displacement type)		
1	Electric-Driven Pump		
2	Main Reservoirs		
2	Flap Actuating Motor		
AR	System Filters		
2	Ground Test Coupling Halves (suction)		
2	Ground Test Coupling Halves (pressure)		
2	Ground Test Coupling Caps (suction)		
2	Ground Test Coupling Caps (pressure)		
2	Flap Selector Valve		
1	Nose Landing Gear Steering Valve		
AR	Metering Check Valves		
AR	Check Valves		
12	Spoiler Actuating Cylinders		
1	Stabilizer Actuating Motor		
2	Main Relief Valves		
4	Firewall Shutoff Valves		
6	Spoiler Control Valves		
1	Hydraulic Fluid Quantity Indicator		
1	Temperature Control Valve		
2	Temperature Bulb		
4	Hydraulic Fluid Quantity Transmitter		
2	Reservoir Drain Valves		
2	Boost Pumps		
4	Pressure Reducers		
2	Main Landing Gear Actuating Cylinders		
1	Nose Landing Gear Actuating Cylinder		
3	Landing Gear Unlatching Cylinders		
8	Brake Shuttle Valves		
1	Priority Valve		
AR	Selector Valves		
AR	Pressure Transmitters		
4	Pressure Switches		
9	Anti-Skid Control Valves		
4	Main Landing Gear Door Cylinders		
2	Yaw Damper Cylinders		
1	Yaw Damper Control Valve		



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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneu	9729A-L/R or 9729C-L/R
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333 or 9541333F, 9560478
*8	Main Wheel Tires (39 x 13)	U. S. Rubber	20 PR, Type VII
**8	Tires, Main Wheel (39 x 13)	Goodyear	20 PR, Type VII
1	Nose Oleo Shock Strut	Cleveland Pneu	9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334 or 9541334F, 956-479
*2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 PR, Type VII
**2	Tires, Nose Wheel (29 x 7.7)	Goodyear	12 PR, Type VII

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels at 66.45 lb ea	531.6 lb	
8	Brakes at 120.3 lb ea	962.4 lb	
8	Tires at *84.1 lb ea (tubeless)	*672.8 lb	**716.0
	**89.5	*2,166.8 lb	

NOSE GEAR

2	Wheels at 35.7 lb ea	71.4 lb
2	Brakes at 84.0 lb ea	168.0 lb
2	Tires at 33.8 lb ea (tubeless)	67.6 lb
		307.0 lb

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

\*Effective Ships 1 through 13.  
\*\*Effective Ships 14 and on.



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APPENDIX I-C

LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneu	9729A-L/R or 9729C-L/R
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333 or 9541333F, 9560478
*8	Main Wheel Tires (39 x 13)	U. S. Rubber	20 P.R., Type VII
**8	Tires, Main Wheel (39 x 13)	Goodyear	20 P.R., Type VII
1	Nose Oleo Shock Strut	Cleveland Pneu	9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334 or 9541334F, 9560479
*2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 P.R., Type VII
**2	Tires, Nose Wheel (29 x 7.7)	Goodyear	12 P.R., Type VII

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels at 66.45 lb ea . . . . .	531.6 lb	
8	Brakes at 120.3 lb ea . . . . .	962.4 lb	
8	Tires at *84.1 lb ea (Tubeless). . . .	*672.8 lb	**716.0
	**89.5	*2,166.8 lb	

NOSE GEAR

2	Wheels at 35.7 lb ea . . . . .	71.4 lb
2	Brakes at 84.0 lb ea . . . . .	168.0 lb
2	Tires at 33.8 lb ea (Tubeless). . . .	67.6 lb
		307.0 lb

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

\*Effective Ships 1 through 13.

\*\*Effective Ships 14 and on.



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LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
5/18B 5/19B 7/19D 9/108 17/19F 22/19G 25/19H	2 Main Oleo Shock Strut	Cleveland Pneu	9729A-L/R or 9729C-L/R
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333 or 9541333F, 9560478
8	Main Wheel Tires (39 x 13)	U.S. Rubber	20 P.R., Type VII
1	Nose Oleo Shock Strut	Cleveland Pneu	9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334 or 9541334F, 9560479
2	Nose Wheel Tires (29 x 7.7)	U.S. Rubber	12 P.R., Type VII

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels at 65.45 lb ea.....	531.6 lb
8	Brakes at 120.3 lb ea.....	962.4 lb
8	Tires at 84.1 lb ea (Tubeless).....	672.8 lb
		<u>2,166.8 lb</u>

NOSE GEAR

2	Wheels at 35.7 lb ea.....	71.4 lb
2	Brakes at 84.0 lb ea.....	168.0 lb
2	Tires at 33.8 lb ea (Tubeless).....	67.6 lb
		<u>307.0 lb</u>

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.



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LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneum.	9729A L/R
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333F, 9560478
8	Main Wheel Tires (39 x 13)	U. S. Rubber	20 P.R., Type VII
1	Nose Oleo Shock Strut	Cleveland Pneum.	9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334F, 9560479
2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 P.R., Type VII

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels at 66.45 lb ea	531.6 lb
8	Brakes at 120.3 lb ea	962.4 lb
8	Tires at 84.1 lb ea (Tubeless)	672.8 lb
		<u>2,166.8 lb</u>

NOSE GEAR

2	Wheels at 35.7 lb ea	71.4 lb
2	Brakes at 84.0 lb ea	168.0 lb
2	Tires at 33.8 lb ea (Tubeless)	67.6 lb
		<u>307.0 lb</u>

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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SAN DIEGO

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## APPENDIX I-C

### LANDING GEAR EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneum.	9729A
8	Main Landing Gear Wheels and Brakes	Goodyear	9541333, 9560393
8	Main Wheel Tires (39 x 13)	U. S. Rubber	20 P.R., Type VII
1	Nose Oleo Shock Strut	Cleveland Pneum.	9772A
2	Nose Landing Gear Wheels and Brakes	Goodyear	9541334, 9560394
2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 P.R., Type VII

#### LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

##### MAIN GEAR

8	Wheels at 66.45 lb ea	531.6 lb
8	Brakes at 120.3 lb ea	962.4 lb
8	Tires at 84.1 lb ea (Tubeless)	672.8 lb
		<u>2,166.8 lb</u>

##### NOSE GEAR

2	Wheels at 35.7 lb ea	71.4 lb
2	Brakes at 84.0 lb ea	168.0 lb
2	Tires at 33.8 lb ea (Tubeless)	67.6 lb
		<u>307.0 lb</u>

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.



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## APPENDIX I-C

### LANDING GEAR EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneum.	SK 9729
8	Main Wheels	Goodyear	9541333 PD860
8	Main Wheel Brakes	Goodyear	9560393 PD860
8	Main Wheel Tires (39 x 13)	U. S. Rubber	20 P.R., Type VII HP
1	Nose Oleo Shock Strut	Cleveland Pneum.	SK 9772
2	Nose Wheels	Goodyear	9541334 PD875
2	Nose Wheel Tires (29 x 7.7)	U. S. Rubber	12 P.R., Type VII HP
1	Nose Wheel Brake	Goodyear	9560394 PD875

#### LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

##### MAIN GEAR

8	Wheels at 66.45 lb ea . . . . .	531.6 lb
8	Brakes at 120.3 lb ea . . . . .	962.4 lb
8	Tires at 84.1 lb ea (Tubeless) . . . . .	672.8 lb
		2166.8 lb

##### NOSE GEAR

2	Wheels at 35.7 lb ea . . . . .	71.4 lb
2	Brakes at 84.0 lb ea . . . . .	168.0 lb
2	Tires at 33.8 lb ea (Tubeless) . . . . .	67.6 lb
		307.0 lb

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
2	Main Oleo Shock Strut	Cleveland Pneum.	SK 9729
8	Main Wheels	Goodyear	9541333 PD860
8	Main Wheel Brakes	Goodyear	9560393 PD860
8	Main Wheel Tires (39 x 13)	U.S. Rubber	20 P.A., Type VII HP
1	Nose Oleo Shock Strut	Cleveland Pneum.	SK 9772
2	Nose Wheels	Goodyear	9541334 PD875
2	Nose Wheel Tires (29 x 7.7)	U.S. Rubber	12 P.A., Type VII HP
1	Nose Wheel Brake	Goodyear	9560394 PD875

LANDING GEAR WHEEL, BRAKE, AND TIRE DESIGN WEIGHT:

MAIN GEAR

8	Wheels @ 65.2 lb ea . . . . .	521.6 lb
8	Brakes @ 120.3 lb ea . . . . .	962.4 lb
8	Tires @ 84.1 lb ea (Tubeless) . . . . .	672.8 lb
		<u>2156.8 lb</u>

NOSE GEAR

2	Wheels @ 35.7 lb ea . . . . .	71.4 lb
2	Brakes @ 84.0 lb ea . . . . .	168.0 lb
2	Tires @ 33.8 lb ea (Tubeless) . . . . .	67.6 lb
		<u>307.0 lb</u>

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.



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LANDING GEAR EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Main Oleo Shock Strut	Cleveland Pneum.	SK 9729
8	Main Wheels	Goodyear	9541333 PD860
8	Main Wheel Brakes	Goodyear	9560388 PD860
8	Main Wheel Tires (39 x 13)	U.S. Rubber	20 P.R., Type VII HP
1	Nose Oleo Shock Strut	Cleveland Pneum.	SK9772
2	Nose Wheels	Goodyear	9541334 PD875
2	Nose Wheel Tires (29 x 7.7)	U.S. Rubber	12 P.R., Type VII HP
1	Nose Wheel Brake	Goodyear	9560389 PD875

LANDING GEAR WHEEL, BRAKE, AND TIRE, DESIGN WEIGHT

MAIN GEAR

8 Wheels @ 65.2 lb ea - - - - -	521.6 lb
8 Brakes @ 120.3 lb ea - - - - -	962.4 lb
8 Tires @ 84.1 lb ea - - - - -	672.8 lb
(Tubeless)	<u>2156.8 lb</u>

NOSE GEAR

2 Wheels @ 35.7 lb ea - - - - -	71.4 lb
2 Brakes @ 84.0 lb ea - - - - -	168.0 lb
2 Tires @ 33.8 lb ea - - - - -	67.6 lb
(Tubeless)	<u>307.0 lb</u>

The above weights are those allotted for the specific items noted. Any change requested by the Buyer that alters these weights will affect the airplane empty weight guarantee and be subject to negotiation.

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SAN DIEGO, CALIF.

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## APPENDIX I-C

### LANDING GEAR EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Main Oleo Shock Struts		
8	Main Wheels		
8	Main Wheel Brakes		
8	Main Wheel Tires (12.50 x 16)		Type III
1	Nose Oleo Shock Strut		
2	Nose Wheels		
2	Nose Wheel Tires (7.50 x 14)		Type III
1	Nose Wheel Brake		

### LANDING GEAR WHEEL, BRAKE, AND TIRE, DESIGN WEIGHT

#### MAIN GEAR

8 Wheels @	61.0 Lb Ea	-----	488.0 Lb
8 Brakes @	125.0 Lb Ea	-----	1000.0 Lb
8 Tires @	103.0 Lb Ea	-----	824.0 Lb
(Tubeless)			<u>2312.0 Lb</u>

#### NOSE GEAR

2 Wheels @	25.0 Lb Ea	-----	50.0 Lb
2 Brakes @	50.0 Lb Ea	-----	100.0 Lb
2 Tires @	35.0 Lb Ea	-----	70.0 Lb
(Tubeless)			<u>220.0 Lb</u>

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APPENDIX I-C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
*1	Pilot Seat	Convair	22-98504-7
*1	Copilot Seat	Convair	22-98504-8
**1	Pilot Seat	Convair	22-98504-805
**1	Copilot Seat	Convair	22-98504-806
***1	Pilot Seat	Convair	30-98504-805
***1	Copilot Seat	Convair	30-98504-803
1	Flight Engineer's Seat	Convair	22-98505-5
3	Stewardess' Seats	Convair	22-93513-1
			22-93529-1
			22-93503-801
1	Observer Seat	Convair	22-98506-3
7	Passenger Seats (Double L/H)	Convair	22-92501-805
8	Passenger Seats (Double L/H)	Convair	22-92501-809
7	Passenger Seats (Double R/H)	Convair	22-92501-806
8	Passenger Seats (Double R/H)	Convair	22-92501-810
1	Passenger Seat (Double-Special) L/H	Convair	22-92501-811
1	Passenger Seat (Double-Special) R/H	Convair	22-92501-812
4	Lounge Area Seats (Double)	Convair	22-93597-805
4	Lounge Area Seats (Double)	Convair	22-93597-811
1	Lounge Area Seat (Double)	Convair	22-93552-1
1	Lounge Area Seat (Double)	Convair	22-93552-5
*1	Lounge Area Seat (Double)	Convair	22-93598-1
**1	Lounge Area Seat (Double)	Convair	22-93598-5
***1	Lounge Area Seat (Double)	Convair	22-93598-807
4	Pilot, Copilot, Flight Engineer, Observer Rotary Buckle and Crotch Straps	Pac. Scientific	1101115-0
2	Inertia Reels, Includes Shoulder Harness (Pilot and Copilot)	Pac. Scientific	0101145-0
1	Inertia Reel, Includes Shoulder Harness, Flight Engineer	Pac. Scientific	0101146-0
1	Observer's Shoulder Harness	Pac. Scientific	1101297-04

\*Effective Ships 1 through 10

\*\*Effective Ships 11 through 13

\*\*\*Effective Ships 14 and on

Effective Ships 1 through 10

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## FURNISHINGS

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
5/19B	1 Pilot Seat	Convair	22-98504-7
5/22A	1 Copilot Seat	Convair	22-98504-8
1/19D	1 Flight Engineer's Seat	Convair	22-98505-5
1/35B	3 Stewardess' Seats	Convair	22-93513-1
10/142			22-93529-1
11/138			22-93503-801
12/19E	1 Observer Seat	Convair	22-98506-3
15/193	7 Passenger Seats (Double L.H.	Convair	22-92501-805
17/19F	8 Passenger Seats (Double L.H.	Convair	22-92501-809
22/19G	7 Passenger Seats (Double R.H.	Convair	22-92501-806
18/22A	8 Passenger Seats (Double R.H.	Convair	22-92501-810
25/19H	1 Passenger Seat (Double-Special) L.H.	Convair	22-92501-811
	1 Passenger Seat (Double-Special) R.H.	Convair	22-92501-812
	4 Lounge Area Seats (Double)	Convair	22-93597-805
	1 Lounge Area Seat (Double)	Convair	22-93552-1
	1 Lounge Area Seat (Double)	Convair	22-93598-1
	4 Pilot, Copilot, Flight Engineer, Observer Rotary Buckle and Crotch Straps	Pac. Scientific	1101115-0
	2 Inertia Reels, Includes Shoulder Harness (Pilot and Copilot)	Pac. Scientific	0101145-0
	1 Inertia Reel, Includes Shoulder Harness Flight Engineer	Pac. Scientific	0101146-0
	1 Observers Shoulder Harness	Pac. Scientific	1101297-04
	3 Stewardess Safety Belts and Shoulder Harnesses	Convair	BN-1-1510-2
	84 Passenger Seat Belts (with Cumming - Saunders 3100A gold anodized buckle)	Convair	BN-1-1510-1
	3 Wash basins, Valves and Hardware	Convair	22-93800 (Fwd Lav) 22-94800 (Aft Lav)
	1 Toilet Tissue Dispenser	Convair	22-93803 (Fwd Lav)
	1 Toilet Tissue Dispenser	Convair	22-94804-3 (Aft Lav L/H)



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Pilot Seat	Convair	22-98504-7
1	Copilot Seat	Convair	22-98504-8
1	Flight Engineer's Seat	Convair	22-98505-5
3	Stewardess' Seats	Convair	22-93510-1
			22-93510-1
			22-93505
1	Observer Seat	Convair	22-98506-3
15	Passenger Seats (Double) L.H.	Convair	22-92501-1
15	Passenger Seats (Double) R.H.	Convair	22-92501-2
1	Passenger Seat (Double-Special) L.H.	Convair	22-92501-3
1	Passenger Seat (Double-Special) R.H.	Convair	22-92501-4
4	Lounge Area Seats (Double)	Convair	22-93597-805
1	Lounge Area Seat (Double)	Convair	22-93552-1
1	Lounge Area Seat (Double)	Convair	22-93598-1
4	Pilot, Copilot, Flight Engineer, Observer Rotary Buckle and Crotch Straps	Pac. Scientific	1101115-0
2	Inertia Reels, Includes Shoulder Harness (Pilot and Copilot)	Pac. Scientific	0101145-0
1	Inertia Reel, Includes Shoulder Harness Flight Engineer	Pac. Scientific	0101146-0
1	Observers Shoulder Harness	Pac. Scientific	1101297-04
3	Stewardess Safety Belts and Shoulder Harnesses	Convair	BN-1-1510-2
84	Passenger Seat Belts (with Cumming - Saunders 3100A gold anodized buckle)	Convair	BN-1-1510-1
3	Wash Basins, Valves and Hardware	Convair	22-93800 (Fwd Lav)
			22-94800 (Aft Lav)
3	Toilet Tissue Dispensers	Convair	22-93803 (Fwd Lav)
			22-94805 (Aft Lav)
3	Soap Dispensers - Cake	Convair	22-94806
3	Towel Dispenser Units (each consisting of three dispensers; two universal for either linen or paper, and one for paper only)		

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**APPENDIX I-C**

**FURNISHINGS**

**CONVAIR FURNISHED - CONVAIR INSTALLED**

Quan Reqd	Description	Manufacturer	Part or Spec. Number
19B 22A 19D 35B 142 138 19E 193 19F	1 Pilot Seat	Convair	22-98504-1
	1 Copilot Seat	Convair	22-98504-2
	1 Flight Engineer's Seat	Convair	22-98505
	3 Stewardess' Seats	Convair	22-93513
			22-93503
			22-93529
	1 Observer Seat	Convair	22-98506
	15 Passenger Seats (Double) L.H.	Convair	22-92501-1
	15 Passenger Seats (Double) R.H.	Convair	22-92501-2
	1 Passenger Seat (Double-Special) L.H.	Convair	22-92501-3
	1 Passenger Seat (Double-Special) R.H.	Convair	22-92501-4
	4 Club Area Seats (Double)	Convair	
	1 Club Area Seat (Quadruple)		
	4 Pilot, Copilot, Flight Engineer, Observer Rotary Buckle, including Lap Belt and Crotch Straps	Pac. Scientific	1101115-0
	2 Inertia Reels, Includes Shoulder Harness (Pilot and Copilot)	Pac. Scientific	0101145-0
	1 Inertia Reel, Includes Shoulder Harness Flight Engr.	Pac. Scientific	0101146-0
	1 Observers Shoulder Harness	Pac. Scientific	1101297-04
228A	3 Stewardess Seat Belts (with Cumming - Saunders 3100A gold anodized buckle) and shoulder harnesses.	Convair	SK-22-91559
	84 Passenger Seat Belts (with Cumming - Saunders 3100A gold anodized buckle)	Convair	SK-22-91559
	3 Wash Basins, Valves and Hardware	Convair	22-93800 (Fwd Lav) 22-94800 (Aft Lav)
	3 Toilet Tissue Dispensers	Convair	22-93805 (Fwd Lav) 22-94805 (Aft Lav)
	3 Soap Dispensers - Cake	Convair	22-94806
	3 Towel Dispenser Units (each consisting of three dispensers; two universal for either linen or paper, and one for paper only)		



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
9B 1	Pilot Seat	Convair	22-98504-1
2A 1	Copilot Seat	Convair	22-98504-2
9D 1	Flight Engineer's Seat	Convair	22-98505
5B 3	Stewardess' Seats	Convair	22-93513
42			22-93503
38			22-93529
9E 1	Observer Seat	Convair	22-98506
93 15	Passenger Seats (Double) L.H.	Convair	22-92501-1
9F 15	Passenger Seats (Double) R.H.	Convair	22-92501-2
1	Passenger Seat (Double-Special) L.H.	Convair	22-92501-3
1	Passenger Seat (Double-Special) R.H.	Convair	22-92501-4
4	Club Area Seats (Double)	Convair	
1	Club Area Seat (Quadruple)		
4	Pilot, Copilot, Flight Engineer, Observer Rotary Buckle, Including Lap Belt and Crotch Straps	Pac. Scientific	1101115-0
2	Inertia Reels, Includes Shoulder Harness (Pilot and Copilot)	Pac. Scientific	0101145-0
1	Inertia Reel, Includes Shoulder Harness Flight Engr.	Pac. Scientific	0101146-0
3	Stewardess Safety Belts and Shoulder Harness		
1	Observers Shoulder Harness	Pac. Scientific	1101297-04
72	Passenger Safety Belts and Crash Energy Absorbers		
12	Passenger Safety Belts (Club Area)		
3	Wash Basins, Valves and Hardware	Convair	22-93800 (Fwd Lav) 22-94800 (Aft Lav)
3	Toilet Tissue Dispensers	Convair	22-93805 (Fwd Lav) 22-94805 (Aft Lav)
3	Soap Dispensers - Cake	Convair	22-94806
3	Towel Dispenser Units (each consisting of three dispensers; two universal for either linen or paper, and one for paper only)	Convair	

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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Pilot Seat	Convair	22-98504-1
1	Copilot Seat	Convair	22-98504-2
1	Flight Engineer's Seat	Convair	22-98505
3	Stewardess Seats	Convair	22-93513
			22-93503
			22-93504
1	Observer Seat	Convair	22-98506
17	Passenger Seats (Double) L.H.	Convair	22-92501-1
17	Passenger Seats (Double) R.H.	Convair	22-92501-2
1	Passenger Seat (Double-Special) L.H.	Convair	22-92501-3
1	Passenger Seat (Double-Special) R.H.	Convair	22-92501-4
4	Club Area Seats (Double)	Convair	
1	Club Area Seat (Quadruple)		
4	Pilot, Copilot, Flight Engineer, Observer Rotary Buckle, Including Lap Belt and Crotch Straps	Pac. Scientific	1101115-0
3	Inertia Reels Includes Shoulder Harness (Pilot, Copilot and Flight Engineer)	Pac. Scientific	0101145-0
3	Stewardess Safety Belts and Shoulder Harness		
1	Observers Shoulder Harness	Pac. Scientific	1101297-0
72	Passenger Safety Belts and Crash Energy Absorbers		
12	Passenger Safety Belts (Club Area)		
3	Wash Basins, Valves and Hardware	Convair	22-93800(Fwd lav) 22-94800(Aft lav)
3	Toilet Tissue Dispensers	Convair	22-93805(Fwd lav) 22-94805(Aft lav)
3	Soap Dispensers - Cake	Convair	22-94806
3	Towel Dispenser Units (each con- sisting of three dispensers; two universal for either linen or paper, and one for paper only)		
3	Cleansing Tissue Dispensers	Convair	22-93803(Fwd lav) 22-94803(Aft lav)
3	Waste Containers	Convair	22-93804(Fwd lav) 22-94804(Aft lav)
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)	Convair	22-92800(Fwd lav) 22-94850(Aft lav)



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## APPENDIX I-C

### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
2	Pilots' Seats		
1	Flight Engineer's Seat		
3	Stewardess' Seats		
1	Observer Seat		
36	Passenger Seats (double)		
4	Club Area Seats (double)		
1	Club Area Seat (Quadruple)		
2	Pilots' Safety Belts and Shoulder Harnesses		
1	Flight Engineer's Safety Belt and Shoulder Harness		
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)		
3	Stewardess Safety Belts and Shoulder Harness		
1	Observers Safety Belt and Shoulder Harness		
84	Passenger Safety Belts		
3	Wash Basins, Valves and Hardware		
3	Toilet Tissue Dispensers		
3	Soap Dispensers		
3	Sanitary Napkin Dispensers		
3	Towel Dispenser Units (each consisting of three dispensers; two universal for either linen or paper, and one for paper only)		
3	Cleansing Tissue Dispensers		
3	Waste Containers		
3	Ash Trays (lavatory)		
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)		
3	Toilets, Disposal Tanks, & Hardware		
2	Buffet (2 units each) #1	Convair	22-93002
	#2 & #3	Convair	22-93005
	#4	Convair	22-93009
2	Stewardess Switch Panel		
2	Stewardess Call Chimes	Electro Switch To be assigned	
AR	Lavatory Assist Handles		
3	Lavatory Coat Hooks (Flush-type)		
*	Lavatory Signs "No Smoking- Return to Cabin"		
*	Lavatory "Occupied" Signs		
*	"No Smoking - Fasten Seat Belts" Sign		
1	Water System Pump		
AR	Buffet Water Filters		
2	Coffee Makers, (115v ac)	Nordskog Co.	5045D
*Requirements listed under "Electrical System - Interior Lights"			



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
9B 2	Pilots' Seats		
2A 1	Flight Engineer's Seat		
9D 3	Stewardess' Seats		
5B 1	Observer Seat		
40	Passenger Seats (double)		
2	Lounge Seats (double)		
2	Pilots' Safety Belts and Shoulder Harnesses		
1	Flight Engineer's Safety Belt and Shoulder Harness		
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)		
3	Stewardess Safety Belts and Shoulder Harness		
1	Observers Safety Belt and Shoulder Harness		
84	Passenger Safety Belts		
3	Wash Basins, Valves and Hardware		
3	Toilet Tissue Dispensers		
3	Soap Dispensers		
3	Sanitary Napkin Dispensers		
42 3	Towel Dispenser Units (each consisting of three dispensers; two universal for either linen or paper, and one for paper only)		
3	Cleansing Tissue Dispensers		
3	Waste Containers		
3	Ash Trays (lavatory)		
1	Tank Assembly, Water	Convair	22-95400
3	Wash Basin Mirrors		
3	Toilets, Disposal Tanks, & Hardware		
2	Buffet (2 units each) #1	Convair	22-93002
	#2 & #3	Convair	22-93005
	#4	Convair	22-93009
2	Stewardess Switch Panel		
2	Stewardess Call Chimes	Electro Switch To be assigned	
AR	Lavatory Assist Handles		
3	Lavatory Coat Hooks (Flush type)		
*	Lavatory Signs "No Smoking- Return to Cabin"		
*	Lavatory "Occupied" Signs		
*	"No Smoking - Fasten Seat Belts" Sign		
1	Water System Pump		
AR	Buffet Water Filters		
2	Coffee Makers, (115v ac)	Nordskog Co.	5045D

\*Requirements listed under "Electrical System - Interior Lights"



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAL. INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
9B 2	Pilots' Seats		
2A 1	Flight Engineer's Seat		
9D 3	Stewardess' Seats		
5B 1	Observer Seat		
40	Passenger Seats (double)		
2	Lounge Seats (double)		
2	Pilots' Safety Belts and Shoulder Harnesses		
1	Flight Engineer's Safety Belt and Shoulder Harness		
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)		
3	Stewardess Safety Belts and Shoulder Harness		
1	Observers Safety Belt and Shoulder Harness		
84	Passenger Safety Belts		
3	Wash Basins, Valves and Hardware		
3	Toilet Tissue Dispensers		
3	Soap Dispensers		
3	Sanitary Napkin Dispensers		
3	Linen Towel Dispensers		
3	Cleansing Tissue Dispensers		
3	Waste Containers		
3	Ash Trays (Lavatory)		
1	Tank Assembly, Water	Convair	22-95400
3	Wash Basin Mirrors		
3	Toilets, Disposal Tanks, & Hardware		
2	Buffet (2 units each) #1	Convair	22-93002
	#2 & #3	Convair	22-93005
	#4	Convair	22-93009
2	Stewardess Switch Panel		
2	Stewardess Call Chimes	Electro Switch	To be assigned
AR	Lavatory Assist Handles		
3	Lavatory Coat Hooks (Flush type)		
*	Lavatory Signs "No Smoking - Return to Cabin"		
*	Lavatory "Occupied" Signs		
*	"No Smoking - Fasten Seat Belts" Sign		
1	Water System Pump		
AR	Buffet Water Filters		
2	Coffee Makers, (115v ac)	Nordskog Co.	5045D

\*Requirements listed under "Electrical System - Interior Lights"



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APPENDIX I - C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2A 9B	2 Pilots' Seats x		
1	Flight Engineer's Seat x		
3	Stewardess' Seats x		
1	Observer Seat		
40	Passenger Seats (Double) x		
2	Lounge Seats (Double) x		
2	Pilots' Safety Belts and Shoulder Harnesses		
1	Flight Engineer's Safety Belt and Shoulder Harness		
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)		
3	Stewardess Safety Belts and Shoulder Harnesses		
1	Observers Safety Belt and Shoulder Harness		
84	Passenger Safety Belts		
3	Wash Basins, Valves and Hardware ✓		
3	Toilet Tissue Dispensers ✓		
3	Soap Dispensers ✓		
3	Sanitary Napkin Dispensers ✓		
3	Linen Towel Dispensers ✓		
3	Cleansing Tissue Dispensers ✓		
3	Waste Containers ✓		
3	Ash Trays (lavatory) ✓		
1	Potable Water Tank (50 gal. capacity, - pressurized)		
3	Wash Basin Mirrors ✓		
3	Toilets, Disposal Tanks, and Hardware ✓		
1	Buffet (4 Units) #1	Convair	22-93002
	#2 & #3	Convair	22-93005
	#4	Convair	22-93009
2	Stewardess Switch Panel ✓		
2	Stewardess Call Chimes ✓	Electro Switch	To be assigned
AR	Lavatory Assist Handles -		
3	Lavatory Coat Hooks (Flush Type) -		
*	Lavatory Signs "No Smoking - Return ✓ to Cabin"		
*	Lavatory "Occupied" Signs ✓		
*	"No Smoking - Fasten Seat Belts" Sign ✓		
1	Water System Pump		
AR	Buffet Water Filters ✓		

\* Requirements listed under "Electrical System - Interior Lights"





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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
#3	Stewardess Safety Belts and Shoulder Harness	Autocrat	BN1-1510-2
19G 19H 19I ##3	Stewardess Safety Belts and Shoulder Harness	Cummins and Saunders	CV1013-2 and -3
#84	Passenger Seat Belts (with Cummins and Saunders 3100A gold anodized buckle)	Autocrat	BN1-1510-1
##84	Passenger Seat Belts (with gold anodized buckle)	Cummins and Saunders	CV1013-1
3	Wash Basins, Valves and Hardware	Convair	22-93800(Fwd Lav) 22-94800(Aft Lav)
1	Toilet Tissue Dispenser	Convair	22-94804-3 (Aft Lav L/H)
1	Toilet Tissue Dispenser	Convair	22-94804-4 (Aft Lav R/H)
1	Soap Dispenser - Cake	Convair	22-94806-3 (Aft Lav L/H)
1	Soap Dispenser - Cake	Convair	22-94806-4 (Aft Lav R/H)
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)	Convair	22-92800(Fwd Lav) 22-94870-1 and -2 (Aft Lav)
3	Waste Containers	Convair	22-93830-13 (Fwd 1) 22-94826 (Aft 2)
1	Passenger Seat (Double) with Food Tray Receptacle L/H	Convair	22-92501-807
1	Passenger Seat (Double) with Food Tray Receptacle L/H	Convair	22-92501-813
1	Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-808
1	Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-814

#Effective Ships 1 through 13

##Effective Ships 14 and on



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
22/19G 25/19H	1 Toilet Tissue Dispenser	Convair	22-94804-4 (Aft Lav) R/H
	2 Soap Dispensers - Cake	Convair	22-94806-3
	1 Soap Dispensers - Cake	Convair	22-94806-4
	1 Tank Assembly, Water	Convair	22-95400
	3 Lavatory Mirrors (Shatterproof)	Convair	22-92800 (Fwd Lav) 22-94870-1 & -2 (Aft Lav) 22-93830-13 (Fwd 1) 22-94826 (Aft 2)
	3 Waste Containers	Convair	
	1 Passenger Seat (Double) with Food Tray Receptacle L/H	Convair	22-92501-807
	1 Passenger Seat (Double) with Food Tray Receptacle L/H	Convair	22-92501-813
	1 Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-808
	1 Passenger Seat (Double) with Food Tray Receptacle R/H	Convair	22-92501-814



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
3	Cleansing Tissue Dispensers	Convair	22-93803 (Fwd lav) 22-94803 (Aft lav)
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)	Convair	22-92500 (Fwd lav) 22-94870-1 & -2 (Aft lavs)
2	Passenger Seats (Double) with Food Tray Receptacle, L.H.	Convair	22-92501-5
2	Passenger Seats (Double) with Food Tray Receptacle, R.H.	Convair	22-92501-6
3	Waste Containers	Convair	22-93830-13 (Fwd 1) 22-94826 (Aft 2)

APPENDIX I-C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Pilots' Seats		
1	Flight Engineer's Seat		
3	Stewardess' Seats		
1	Observer Seat		
40	Passenger Seats (Double)		
2	Lounge Seats (Double)		
2	Pilots' Safety Belts and Shoulder Harnesses		
1	Flight Engineer's Safety Belt and Shoulder Harness		
3	Inertia Reels (Pilot, Co-pilot and Flight Engineer)		
3	Stewardess Safety Belts and Shoulder Harnesses		
1	Observers Safety Belt and Shoulder Harness		
84	Passenger Safety Belts		
3	Wash Basins, Valves and Hardware		
3	Toilet Tissue Dispensers		
3	Soap Dispensers		
3	Sanitary Napkin Dispensers		
3	Linen Towel Dispensers		
3	Cleansing Tissue Dispensers		
3	Waste Containers		
3	Ash Trays (lavatory)		
AR	Lavatory Water Tanks		
3	Wash Basin Mirrors		
3	Toilets, Disposal Tanks, and Hardware		
1	Buffet (4 Units)		
2	Stewardess Switch Panel		
2	Stewardess Call Chimes		
AR	Lavatory Assist Handles		
3	Lavatory Cont Hooks (Flush Type)		
*	Lavatory Signs "No Smoking - Return to Cabin"		
*	Lavatory "Occupied" Signs		
*	"No Smoking - Fasten Seat Belts" Sign		

\* Requirements listed under "Electrical System - Interior Lights"



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
3	Cleansing Tissue Dispensers	Convair	22-93803 (Fwd lav) 22-94803 (Aft lav)
3	Waste Containers	Convair	22-93804 (Fwd lav) 22-94804 (Aft lav)
1	Tank Assembly, Water	Convair	22-95400
3	Lavatory Mirrors (Shatterproof)	Convair	22-92800 (Fwd lav) 22-94850 (Aft lav)
2	Passenger Seats (Double) With food tray receptacle, L.H.	Convair	22-92501-5
2	Passenger Seats (Double) With food tray receptacle, R.H.	Convair	22-92501-6



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## FURNISHINGS

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
4	Buffet <del>No. 1</del>	Convair	22-93002-1
	<del>#No. 2</del>	Convair	22-93005-3
	<del>##No. 2</del>	Convair	22-93005-801
	<del>#No. 3</del>	Convair	22-93005-1
	<del>##No. 3</del>	Convair	22-93005-5
	<del>\$No. 4</del>	Convair	22-93009
	<del>\$\$\$No. 4</del>	Convair	22-93009-1
	<del>\$\$\$\$No. 4</del>	Convair	22-93009-3
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs (Return to Cabin)	Convair	22-93616 (Fwd)
			22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft)
			22-94606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 (3 Cabin)
			22-94606 (1 Club)
*1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (200-volt, 3-phase 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909-809
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (Noninflatable)	Hoover A/C	CA-300
2	Escape Chutes (Inflatable)	Air Cruisers	13D-12035 (1 pc)
			13D-12036-1 (1 pc)
1	Flight Manual (FAA Approved)	Convair	
2	Pitot Tubes	Kollsman	A34110-00-003
2	Escape Ropes, Cabin	Convair	22-93340-7
2	Escape Ropes, Flight Compartment	Convair	22-91302-1 and -2
*Effective Ships 1 through 10			
<del>Effective Ships 1 through 13</del>			
#Effective Ships 1 through 10			
##Effective Ships 11 through 13			
\$ Effective Ships 2 through 7			
\$\$ Effective Ships 1, and 8 through 10			
\$\$\$ Effective Ships 11 through 13			



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## APPENDIX I-C

### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs (Return to Cabin)	Convair	22-93616 (Fwd)
			22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-94606 (1 Fwd)
			22-93603 (3 cabin)
			22-94606 (1 club)
*1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (200-volt, 3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909-809
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (Noninflatable)	Hoover A/C	CA-300
2	Escape Chutes (Inflatable)	Air Cruisers	13D-12035 (1 pc)
			13D-12036-1 (1 pc)
1	Flight Manual (FAA Apprvd)	Convair	22-91302-1 and 2
2	Pitot Tubes	Kollsman	FDC-3750
2	Escape Ropes, Cabin		A34110-00-003
2	Escape Ropes, Flight Compartment		22-93340-7
1	Assist Rope, Forward Main Entrance		22-91302-1 and 2
1	Strap, Assist Rope, Forward Main Entrance		FDC-3750
2	Stops, Escape Ropes, Flight Compartment	22-92238	22-92238
**1	Water System Pump	Calco	22-93342
			C-7010A

\*Effective Ships 1 through 13.

\*\*Effective Ships 14 and on.

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APPENDIX I-C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs "Return to Cabin"	Convair	22-93616 (Fwd) 22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft) 22-93606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 (3 cabin) 22-94606 (1 club)
1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt, 3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909-809
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (Noninflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc) 13D-12036-1 (1 pc)
1	Flight Manual (FAA Approved)	Convair	
2	Pitot Tubes	Kollsman	A34110-00-003
2	Escape Ropes, Cabin		22-93340-7
2	Escape Ropes, Flight Compartment		22-91302-1 and 2
1	Assist Rope, Forward Main Entrance		FDC-3750
1	Strap, Assist Rope, Forward Main Entrance		22-92238
2	Stops, Escape Ropes, Flight Compartment		22-93342



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs "Return to Cabin"	Convair	22-93616 (Fwd)
			22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft)
			22-93606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 (3 cabin)
			22-94606 (1 club)
1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt, 3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909-5
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (Noninflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc)
			13D-12036-1 (1 pc)
1	Flight Manual (FAA Approved)	Convair	
2	Pitot Tubes	Kollsman	A34110-00-003
2	Escape Ropes, Cabin		22-93340-7
2	Escape Ropes, Flight Compartment		22-91302-1 and 2
1	Assist Rope, Forward Main Entrance		FDC-3750
1	Strap, Assist Rope, Forward Main Entrance		22-92238
2	Stops, Escape Ropes, Flight Compartment		22-93342

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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan. Reqd.	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd Lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft Lav)
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs "Return to Cabin"	Convair	22-93616 (Fwd) 22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft) 22-93606 (1 Fwd)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 (3 cabin) 22-94606 (1 club)
1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt, 3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (non-inflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 (1 pc) 13D-12036 (1 pc)
1	Flight Manual (FAA Approved)	Convair	
2	Pitot Tubes	Aero Research	H-7007-3 L.H. H-7007-4 R.H.
2	Escape Ropes, Cabin		
2	Escape Ropes, Flight Compartment		
1	Assist Rope, Forward Main Entrance		
1	Strap, Assist Rope, Forward Main Entrance		
2	Stops, Escape Ropes, Flight Compartment		



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
1	Pilots' Door Lock and Key	Adams Rite	2028 Type
2	Cabin Temperature Thermom- eter (Mercury)	Kahl Scientific	CV30255
6	Emergency Lights	Luminator	L-14477 (4 pcs) L-14476 (2 pcs)
1	Sanitary Napkin Dispenser	Convair	22-93805 (Fwd Lav)
2	Sanitary Napkin Dispenser	Convair	22-94803 (Aft Lav)
3	Ash Trays (Lavatory)	Convair	22-09554
1	Toilet Shroud	Convair	22-93816 (Fwd)
2	Toilet Shroud	Convair	22-94809 (Aft)
2	Entrance Compt. Switch Panels		
1	Airplane Log Book Holder		
6	Static Pressure Ports		
1	Static Pressure Port (Alternate)		

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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan. Reqd.	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 {Fwd Lav}
2	Toilet Tanks and Hardware	Convair	22-94802 {Aft Lav}
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	3001-3
3	Lavatory Assist Handles	Convair	22-90920
3	Lavatory Coat Hooks (Flush-Type)	Hartwell	H-148-1
2	Lavatory Signs "Return to Cabin"	Convair	22-93616 {Fwd}
			22-94603 {Aft}
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 {2 Aft}
			22-93606 {1 Fwd}
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93603 {3 cabin}
			22-94606 {1 club}
1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (220-volt, 3-phase, 400-cycle, A/C 28v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909
1	Spare Lamp Box	Convair	22-91930
2	Evacuation Slides (non-inflatable)	Hoover A/C	CA-300
2	Escape Chutes (inflatable)	Air Cruisers	13D-12035 {1 pc}
			13D-12036 {1 pc}
1	Flight Manual (FAA Approved)	Convair	
1	Maintenance and Operating Manual	Convair	
2	Pitot Tubes	Aero Research	H-7007-3 L.H.
			H-7007-4 R.H.



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reord	Description	Manufacturer	Part or Spec. Number
1	Toilet Tank and Hardware	Convair	22-93802 (Fwd lav)
2	Toilet Tanks and Hardware	Convair	22-94802 (Aft lav)
4	Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
2	Stewardess Switch Panels	Convair	22-63300
2	Stewardess Call Chimes	Electro Switch	To be assigned
3	Lavatory Assist Handles	Convair	22-90913
3	Lavatory Coat Hooks (Flush-type)	Hartwell	H-148-1
2	Lavatory Signs "Return to Cabin"	Convair	22-93616 (Fwd)
			22-94603 (Aft)
3	Lavatory "Occupied-Vacant" Signs (English and Spanish)	Convair	22-94604 (2 Aft)
4	"Fasten Seat Belts - No Smoking" Signs (English and Spanish)	Convair	22-93606 (1 Fwd)
			22-93603 (3 Cabin)
			22-94606 (1 Club)
1	Water System Pump	Cornelius Co.	3730100
2	Buffet Water Filters	Ogden	AC-2
2	Coffee Makers (200-volt, 3-phase, 400-cycle, A/C 28 v d-c)	Nordskog Co.	5045E
1	Airplane Check-Off List	Convair	22-91909
1	Spare Lamp Box	Convair	22-91930
2	Escape Chutes (Non-inflatable)		
2	Escape Chutes (Inflatable)	Air Cruisers	13D-12054 (1 pc)
			13D-12055 (1 pc)
1	Flight Manual (CAA Approved)	Convair	
1	Maintenance and Operating Manual	Convair	
2	Pitot Tubes	Aero Research	H-7007-1 L.H.
			H-7007-2 R.H.
1	Pilots' Door Lock and Key	Adams Rite	2028 Type
2	Cabin Temperature Thermometers (Mercury)	Taylor Instru.	To be assigned
6	Emergency Lights	Luminator	L-14477 (4 pcs)
			L-14476 (2 pcs)
1	Sanitary Napkin Dispenser	Convair	22-93805 (Fwd lav)
2	Sanitary Napkin Dispenser	Convair	22-94805 (Aft lav)
3	Ash Trays (Lavatory)	Convair	22-09554
1	Toilet Shroud	Convair	22-93801 (Fwd)
2	Toilet Shroud	Convair	22-94801 (Aft)
2	Entrance Compt. Switch Panels		
1	Airplane Log Book Holder		
6	Static Pressure Ports		
1	Static Pressure Port (Alternate)		

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INSTRUMENTS AND RELATED EQUIPMENT (Cont)

Quan Reqd	Description	Manufacturer	Part or Spec. No.
<u>ENGINE INSTRUMENTS - GENERAL</u>			
4	Indicator, Tachometer	Gen. Elec.	8DJ81CAB-1
4	Indicator, Exhaust Gas Temperature	Gen. Elec.	8DJ100AAA1
4	Indicator, Thrust		
4	Units, Thrust Measuring		
4	Indicator, Tachometer (Fan)		
<u>ENGINE INSTRUMENTS - FUEL SYSTEM</u>			
4	Indicator, Fuel Flow	Gen. Elec.	8DJ97GAA-1
1	Indicator Fuel Temperature	Lewis	162C24
2	Indicator, Fuel Quantity Counter Pointer Type Tanks 1 and 4	Simmonds	383053- 05581
2	Indicator, Fuel Quantity Counter Point Type Tanks 2 and 3	Simmonds	383053- 05582
2	Indicator, Fuel Quantity Tanks 1 and 4	Simmonds	383093 01582
2	Indicator, Fuel Quantity Tanks 2 and 3	Simmonds	383093 01581
4	Transmitter, Fuel Flow	Gen. Elec.	8TJ59GAD-1
8	Switch, Main Fuel Pump Pressure	Aero Inst.	1B2599-9
1	Indicator, Fuel Quantity Counter-Pointer Type Center Section Tank	Simmonds	



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
/19B /19E	1 Toilet Tank and Hardware	Convair	22-93802 (Fwd lav)
	2 Toilet Tanks and Hardware	Convair	22-94802 (Aft lav)
	4 Buffet No. 1	Convair	22-93002
	No. 2	Convair	22-93005-3
	No. 3	Convair	22-93005-1
	No. 4	Convair	22-93009
	2 Stewardess Switch Panels	Convair	22-63300
	2 Stewardess Call Chimes	Electro Switch	To be assigned
	3 Lavatory Assist Handles	Convair	22-90913
	3 Lavatory Coat Hooks (Flush-type)	Hartwell	H-148-1
	2 Lavatory Signs "Return to Cabin"	Convair	22-93616 (Fwd) 22-94603 (Aft)
	3 Lavatory "Occupied" Signs	Convair	22-94604 (2 Aft) 22-93606 (1 Fwd)
	4 "No Smoking" - "Fasten Seat Belt" Signs	Convair	22-93603 (3 Cabin) 22-94606 (1 Club)
	1 Water System Pump	Cornelius Co.	3730100
	2 Buffet Water Filters	Ogden	AC-2
	2 Coffee Makers (115v ac)	Nordskog Co.	5045E
	1 Airplane Check-Off List	Convair	22-91909
	1 Spare Lamp Box	Convair	22-91930
	2 Escape Chutes (non-inflatable)		
	2 Escape Chutes (inflatable)	Air Cruisers	13D-12054 (1 pc) 13D-12055 (1 pc)
	1 Flight Manual (CAA Approved)	Convair	
	1 Maintenance and Operating Manual	Convair	
	2 Pitot Tubes	Aero Research	H-7007-1 L.H. H-7007-2 R.H.
	1 Pilots' Door Lock and Key	Adams Rite	2028 Type
	2 Cabin Temperature Thermometers (Mercury)	Taylor Instr.	To be assigned
	6 Emergency Lights	Luminator	L-14477 (4 pcs) L-14476 (2 pcs)
	1 Sanitary Napkin Dispenser	Convair	22-93805 (Fwd lav)
	2 Sanitary Napkin Dispenser	Convair	22-94805 (Aft lav)
	3 Ash Trays (Lavatory)	Convair	22-09554
	1 Toilet Shroud	Convair	22-93801 (Fwd)
	2 Toilet Shroud	Convair	22-94801 (Aft)
	2 Entrance Comp. Switch Panels		
	1 Airplane Log Book Holder		
	6 Static Pressure Ports		
	1 Static Pressure Port (Alternate)		

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APPENDIX I - C

FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
1	Airplane Check-Off List -		
1	Spare Lamp Box -		
2	Entrance Compartment Switch Panels -		
2	Escape Chutes (non-inflatable)		
2	Escape Chutes (inflatable)		
1	Airplane Log Book Holder -		
1	Flight Manual (CAA Approved) -		
1	Maintenance and Operating Manual -		
2	Pitot Heads ✓		
6	Static Pressure Ports -		
1	Static Pressure Port (Alternate) -		
1	Pilots' Door Lock and Key		
6	Emergency Lights ✓		
2	Cabin Temperature Thermometers - (Mercury)	Taylor Instr.	To be assigned



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### FURNISHINGS

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
1	Airplane Check-Off List		
1	Spare Lamp Box		
2	Entrance Compartment Switch Panels		
2	Escape Chutes (non-inflatable)		
2	Escape Chutes (inflatable)		
1	Airplane Log Book Holder		
1	Flight Manual (CAA Approved)		
1	Maintenance and Operating Manual		
2	Pitot Heads		
6	Static Pressure Ports		
1	Static Pressure Port (Alternate)		
1	Pilots' Door Lock and Key		
6	Emergency Lights		
2	Cabin Temperature Thermometers (Mercury)		



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Assist Rope, Forward Main Entrance		FDC-3750
19G 19H 19I	1 Strap, Assist Rope, Forward Main Entrance	Convair	92238
2	Stops, Escape Ropes, Flight Compartment	Convair	22-93342
**1	Water System Pump	Calco	C-7010A
1	Pilots' Door Lock and Key	Adams Rite	2029-4CK994
2	Cabin Temperature Thermometer (Mercury)	Kahl Scientific	CV30255
6	Emergency Lights	Luminator	L-14477 (4 pcs) L-14476 (2 pcs)
*3	Ash Trays (Lavatory)	Adams Rite	2140-3-1
**3	Ash Trays (Lavatory)	Benbow	10311-6
1	Toilet Shroud	Convair	22-93816 (Fwd)
2	Toilet Shroud	Convair	22-94808 (Aft)
2	Entrance Compartment Switch Panels		
1	Airplane Log Book Holder		
6	Static Pressure Ports	Convair	22-90409
1	Cabinet Dispenser - Fwd Lav.	Convair	22-93803-1
	Consisting of:		
1	Cleansing Tissue Dispenser		
2	Universal Dispenser (Linen or Paper)		
1	Dispenser - Paper Towels		
1	Soap Dispenser		
1	Cabinet Dispenser - Fwd Lav.	Convair	22-92839
	Consisting of:		
1	Sanitary Napkin Dispenser		
1	Air Sickness Bag Dispenser		
1	Toilet Tissue Dispenser		

\*Effective Ships 1 through 10

\*\*Effective Ships 11 and on





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## FURNISHINGS

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
22/190	1 Pilots' Door Lock and Key	Adams Rite	2028-4CK994
25/190	2 Cabin Temperature Thermometer (Mercury)	Kahl Scientific	CV30255
6	Emergency Lights	Luminator	L-14477 (4 pcs) L-14476 (2 pcs)
3	Ash Trays (Lavatory)	Adams Rite	2140-3-1
1	Toilet Shroud	Convair	22-93816 (Fwd)
2	Toilet Shroud	Convair	22-94808 (Aft)
2	Entrance Compt. Switch Panels		
1	Airplane Log Book Holder		
6	Static Pressure Ports	Convair	22-90409
1	Cabinet Dispenser - Fwd Lav. Consisting of:	Convair	22-93803-1
	1 Cleansing Tissue Dispenser		
	2 Universal Dispenser (Linen or Paper)		
	1 Dispenser - Paper Towels		
	1 Soap Dispenser		
1	Cabinet Dispenser Fwd Lav Consisting of:	Convair	22-92839
	1 Sanitary Napkin Dispenser		
	1 Air Sickness Bags Dispenser		
	1 Toilet Tissue Dispenser		
1	Cabinet Dispenser Aft Lav. Consisting of:	Convair	22-94803-1
	1 Air Sickness Bags Dispenser		
	2 Universal Dispensers (Linen or Paper)		
	1 Dispenser-Paper Towels		
	1 Cleansing Tissue Dispenser		
	1 Sanitary Napkin Dispenser		
1	Cabinet Dispenser - Aft Lav. Consisting of:	Convair	22-94804-1
	1 Air Sickness Bag Dispenser		
	2 Universal Dispensers (Linen or Paper)		
	1 Dispenser - Paper Towels		
	1 Cleaning Tissue Dispenser		
	1 Sanitary Napkin Dispenser		



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FURNISHINGS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
1	Pilots' Door Lock and Key	Adams Rite	2028-4CK994
2	Cabin Temperature Thermom- eter (Mercury)	Kahl	CV30255
6	Emergency Lights	Scientific Luminator	L-14477 (4 pcs) L-14476 (2 pcs)
1	Sanitary Napkin Dispenser	Convair	22-93803 (Fwd Lav)
2	Sanitary Napkin Dispenser	Convair	22-94803 (Aft Lav)
3	Ash Trays (Lavatory)	Adams Rite	2140-3-1
1	Toilet Shroud	Convair	22-93816 (Fwd)
2	Toilet Shroud	Convair	22-94808 (Aft)
2	Entrance Compt. Switch Panels		
1	Airplane Log Book Holder		
6	Static Pressure Ports	Convair	22-90409





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# APPENDIX I-C

## PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	ATM Driven Cabin Compressors	Ham. Standard	568650
2	Primary Heat Exchangers	Ham. Standard	545814
2	Freon Compressors	Ham. Standard	561254
2	Freon Condensers	Ham. Standard	550281
2	Freon Evaporators	Ham. Standard	552268
\$1	Recirculation Blower (Cabin Air)	Ham. Standard	545751-C
\$1	Recirculation Blower (Cabin Air)	Ham. Standard	568715
\$1	Recirculation Blower (Cabin Air)	Ham. Standard	573972
*2	Condenser Blowers	Ham. Standard	550842
**2	Condenser Blowers	Ham. Standard	556079
1	Controller, Cabin Pressure	AiResearch	102290-3
2	Valves, Outflow	AiResearch	103182-4
2	Compressor Recirculation Valves	Ham. Standard	535457
2	Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	548331
2	Condenser Cooling Air Shutoff Valves	Ham. Standard	569952
6	Anti-Icing Pressure Regulators	AiResearch	108594-130-2
6	Anti-Icing Pressure Regulators	AiResearch	108594-130-3

\*P/N 550842 Ships 7 and 11

\*\*P/N 556079 Retro-Fit

Effective Ships 1 through 13

Effective Ships 14 and on

Effective Ships 1 through 10

Effective Ships 11 through 13

Effective Ships 14 and on

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### PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	ATM Driven Cabin Compressors	Ham. Standard	550150
2	Primary Heat Exchangers	Ham. Standard	545814
2	Freon Compressors	Ham. Standard	560333
2	Freon Condensers	Ham. Standard	550281
2	Freon Evaporators	Ham. Standard	552268
1	Recirculation Blower (Cabin Air)	Ham. Standard	545751-C
*2	Condenser Blowers	Ham. Standard	550842
**2	Condenser Blowers	Ham. Standard	556079
1	Controller, Cabin Pressure	AIResearch	102290-3
2	Valves, Outflow	AIResearch	103182-4
2	Compressor Recirculation Valves	Ham. Standard	535457
2	Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	548331
2	Condenser Cooling Air Shutoff Valves	Ham. Standard	548333
6	Anti-Icing Pressure Regulators	AIResearch	108594-130-2

\*P/N 550842 Ships 7 and 11  
\*\*P/N 556079 Retro-Fit



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CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	ATM Driven Cabin Compressors	Ham. Standard	550150
2	Primary Heat Exchangers	Ham. Standard	545814
2	Freon Compressors	Ham. Standard	560333
2	Freon Condensers	Ham. Standard	550281
2	Freon Evaporators	Ham. Standard	552268
1	Recirculation Blower (Cabin Air)	Ham. Standard	545751-C
*2	Condenser Blowers	Ham. Standard	550842
**2	Condenser Blowers	Ham. Standard	556079
2	Cabin Pressure Regulators and Safety Relief Valves	AIResearch	103182-4
2	Compressor Recirculation Valves	Ham. Standard	535457
2	Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	548331
2	Condenser Cooling Air Shut- off Valves	Ham. Standard	548333
6	Anti-Icing Pressure Regulators	AIResearch	108594-130-2

\*P/N 550842 Ships 7 and 11  
\*\*P/N 556079 Retro-Fit

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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd.	Description	Manufacturer	Part or Spec. Number
2	ATM Driven Cabin Compressors	Ham. Standard	553350
2	Primary Heat Exchangers	Ham. Standard	545814
2	Freon Compressors	Ham. Standard	522821
2	Freon Condensers	Ham. Standard	522822
2	Freon Evaporators	Ham. Standard	522194
1	Recirculation Blower (Cabin Air)	Ham. Standard	545751
2	Condenser Blowers	Ham. Standard	522827
2	Cabin Pressure Regulators and Safety Relief Valves	AIResearch	103182-850-3
2	Compressor Recirculation		
2	Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	548331
2	Condenser Cooling Air Shutoff Valves	Ham. Standard	522197
AR	Anti-Icing Pressure Regulators	AIResearch	108594-130



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### PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
20	2 ATM Driven Cabin Compressors	Ham. Standard	522340
19A	2 Primary Heat Exchangers	Ham. Standard	522193
	2 Freon Compressors	Ham. Standard	522821
	2 Freon Condensers	Ham. Standard	522822
	2 Freon Evaporators	Ham. Standard	522194
185	1 Recirculation Blower (cabin air)	Ham. Standard	545751
	2 Condenser Blowers	Ham. Standard	522827
	2 Cabin Pressure Regulators	AiResearch	
	2 Cabin Air Safety Valves	AiResearch	
	2 Bypass Valves	Ham. Standard	
	2 Compressor Recirculation Valves	Ham. Standard	522840
	2 Heat Exchanger Cooling Air Shutoff Valves	Ham. Standard	522818
	2 Condenser Cooling Air Shutoff Valves	Ham. Standard	522197
AR	Anti-Icing Pressure Regulators	AiResearch	

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### CONVAIR FURNISHED - CONVAIR INSTALLED

#### INSTRUMENTS AND RELATED EQUIPMENT (Cont)

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or</u> <u>Spec. No.</u>
<u>ENGINE INSTRUMENTS - OIL SYSTEM</u>			
4	Indicator, Oil Quantity	Simmonds	
4	Indicator, Oil Pressure	U.S. Gauge	SR-04B
4	Indicator, Oil Temperature	Lewis	162C23
4	Transmitter, Oil Quantity	Simmonds	
4	Switch, Oil Low Pressure	Hyd. Elec.	1023
	Warning		
4	Transmitter, Oil Pressure	U.S. Gauge	S71D4M
4	Bulb, Temperature Oil	Lewis	56B17
4	Indicator, Oil Quantity (at pod)		
<u>AUTO PILOT (SPERRY TYPE SP-30)</u>			
1	Automatic Pilot Controller	Sperry	1776001-1*
1	Stabilization Computer	Sperry	1776002-3
1	Flight Control Computer	Sperry	1776003-1
1	Automatic Pilot Indicator	Sperry	1776004-1
1	Gain Calibrator	Sperry	1776710-03
3	Servo Bracket	Sperry	615144-01
3	Servo Drive	Sperry	615743-03
4	Linear Accelerometer	Sperry	615794-1
2	Linear Accelerometer	Sperry	615794-2
1	Vertical Gyro	Sperry	617926-1

\*Controller layout shall be similar to Bendix panel 16906, for location of controls.



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PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	ATM Driven Cabin Compressors		
2	Primary Heat Exchangers		
2	Freon Compressors		
2	Freon Condensers		
2	Freon Evaporators		
1	Recirculation Blower (cabin air)		
2	Condenser Blowers		
2	Cabin Pressure Regulators		
2	Cabin Air Safety Valves		
2	Bypass Valves		
2	Compressor Recirculation Valves		
2	Heat Exchanger Cooling Air Shutoff Valves		
2	Condenser Cooling Air Shutoff Valves		
AR	Anti-Icing Pressure Regulators		
2	Air Flow Transmitters		
4	Engine Bleed Air Pressure Regulator Valves		

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### OXYGEN EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

<u>Quan</u> <u>Reqd</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Part or Spec.</u> <u>Number</u>
2	Automatic Passenger Valve with Manual Override	Alar	5870-100
3	Smoke Mask	Scott	6849-9
1	Portable O <sub>2</sub> Cylinder Assy (11-cubic foot) (Crew compartment)	Scott	6080-3
3	Portable O <sub>2</sub> Cylinder Assemblies, (7-cubic foot) (Passenger compartment) with Scott "KS" masks, Scott 8611 60-Inch hose and ARO 0674-A10 nipple)	Scott	5530
3	Regulators (Crew diluter-demand type)	ARO Equipt. Corp.	14950-8
1	Pressure Reducer	Alar	5758
1	Line Valve	Robbins	OV-601



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OXYGEN EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Automatic Passenger Valve with Manual Override	Alar	5870-100
3	Smoke Mask	Scott	6849-9
1	Portable O <sub>2</sub> Cylinder Assy (11-cubic foot) (Crew com- partment)	Scott	6080-3
3	Portable O <sub>2</sub> Cylinder Assem- blies, (7-cubic foot) (Passenger compartment) with Scott "KS" masks, Scott 8611 60-9nch hose and ARO 0674-A10 nipple	Scott	5530
3	Regulators (Crew diluter- demand-type)	Aro Equipt. Corp.	14950-8
3	High Pressure Oxygen Cylin- der and Valve Assembly (107-cubic foot) including pressure gauge	Walter Kidde or Zep Aero	890941 ZC-268-111
1	Pressure Reducer	Alar	5758
1	Line Valve	Robbins	0V-601

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OXYGEN EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Automatic Passenger Valve with Manual Override	Alar	5870-100
3	Smoke Masks	Scott	6849-9
1	Portable O <sub>2</sub> Cylinder Assy. (11-cubic foot) (Crew compartment)	Scott	6080-3L
3	Portable O <sub>2</sub> Cylinder Assem- blies, (7-cubic foot) (Passenger compartment) with Scott "KS" masks, Scott 8611 60-inch hose and ARO 0674-A10 nipple	Scott	5530
3	Regulators (Crew diluter- demand-type)	Aro Equipt. Corp.	14950-8
3	High Pressure Oxygen Cylin- der and Valve Assembly (107-cubic foot) includ- ing pressure gauge	Walter Kidde or Sep Aero	890941 ZC-268-111
1	Pressure Reducer	Alar	5758
1	Line Valve	Robbins	OV-601



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### OXYGEN EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty	Lead	Description	Manufacturer	Part or Spec. Number
36A	1	Automatic Passenger Valve with	Alar	5870-100
19D		Manual Override		
30B	3	Smoke Masks		
19E	1	Portable O2 Cylinder Assy.	Scott	6080-3L
		(11-cubic foot) (Crew Compartment)		
	3	Portable O2 Cylinder Assemblies,	Scott	5500-1 AB
		(7-cubic foot) (Passenger Compartment) with Scott "KS" masks, Scott 8611 60-inch hose and ARO 0674-A10 nipple.		
	3	Regulators (Crew diluter-demand-type)	Aro Equipt Corp.	14950-8
	3	High Pressure Oxygen Cyl & Valve Assy (107-cubic foot)	Walter Kidde or Zep Aero	890941 ZC-208-111
	2	Pressure Gage		
	2	Pressure Reducer		
	1	Check Valve, Style B		AN 6015-2
	1	Check Valve, Style D		AN 6017-1
	1	Line Valve	Robbins	OV-601

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### OXYGEN EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Read	Description	Manufacturer	Part or Spec. Number
AR	Regulators (Passenger continuous flow type)		
1	Automatic Passenger Valve with Manual Override		
AR	Outlets		
3	Smoke Masks		
1	Portable O <sub>2</sub> Cylinder Assy. (11-cubic foot) (Crew Compartment)	Scott	6080-3L
3	Portable O <sub>2</sub> Cylinder Assemblies, (7-cubic foot) (Passenger Compartment) with Scott "KS" masks, Scott 8611 60-inch hose and ARO 0674-A10 nipple.	Scott	5500-1 AB
3	Regulators (Crew diluter-demand type)		
3	High Pressure Oxygen Cyl. & Valve (107 cu. ft)	Walter Kidde or Zep Aero	890941 C-262-107
2	Pressure Gage		
2	Pressure Reducer		
1	Check Valve, Style B		AN 6015-2
1	Check Valve, Style D		AN 6017-1
1	Line Valve	Robbins	OV-601



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OXYGEN EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Qty Reqd	Description	Manufacturer	Part or Spec. Number
36A 19D	AR Regulators (Passenger continuous flow type)		
1	Automatic Passenger Valve with Manual Override		
AR	Outlets		
3	Smoke Masks		
2	Air-Pac-Portable (Crew com- partment)		
144 ✓ 3	Portable O <sub>2</sub> (310 liter)		
3	Regulators (Crew diluter-demand type)		
2 pz	Asbestos Gloves		
3	High Pressure Oxygen Cyl. & Valve (107 cu. ft)	Walter Kidde or Zep Aero	890941 C-262-107
2	Pressure Gage		
2	Pressure Reducer		
1	Check Valve, Style B		AN 6015-2
1	Check Valve, Style D		AN 6017-1
1	Line Valve	Robbins	OV-601

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OXYGEN EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
6A AR	Regulators (Passenger Continuous Flow Type		
1	Automatic Passenger Valve with Manual Override		
<del>AR</del>	<del>Outlets</del>		
3	Smoke Masks		
<del>2</del>	<del>Air-Pac Portable (Crew compartment)</del>		
<del>34</del>	<del>Portable O<sub>2</sub> (310 Liter) <i>assemblies</i></del>		
3	Regulators (Crew Diluter-Demand Type)		
1 Pr.	Asbestos Gloves		
3	High Pressure Oxygen Cylinder <i>Aspy's with gage</i> (107 cu. ft each)		
<del>2</del>	<del>Pressure Gage</del>		
2	Pressure Reducer		
2	Check Valve		
1	Line Valve		



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OXYGEN EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
1	Build-Up and Vent Valve ✓		
1 AR	Regulators (Passenger Continuous Flow Type)		
1	Automatic Passenger Valve with Manual Override		
1 AR	Outlets ✓		
1	Oxygen Converter ✓		
1	Quantity Gage ✓		
3	Smoke Masks		
2	Air-Pac-Portable (Crew compartment)		
1	✓ Filler Valve ✓		
3	✓ Portable O <sub>2</sub> (310 Liter)		
3	Regulators (Crew Diluter-Demand Type)		
2 Pr.	Asbestos Gloves ✓		

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PYROTECHNICS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Flares - 37.0 lb	Kilgore Mfg.	Wiley Type SA-8
1	Flare Container - 13.0 lb	Convair	22-98301-1 and 2



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PYROTECHNICS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Flares - 37.0 lb	Kilgore Mfg.	Wiley Type SA-8
2	Flare Containers - 13.0 lb		

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PYROTECHNICS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Flares	37.0 Lb	Kilgore Mfg.
2	Flare Containers	13.0 Lb	Wiley Type SA-8



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PYROTECHNICS

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description		Manufacturer	Part or Spec Number
2	Flares	37.0 Lb	Wiley	SA-8
2	Flare Containers	13.0 Lb		

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PNEUMATIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
9E 2	Emergency Bake Valve	Walter Kidde	891071
9F 1	Bottle and Drain Fitting, Pneumatic,		
84	3000 PSI, 300-Cubic Inch	Walter Kidde	891545



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PNEUMATIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Emergency Brake Valves	Walter Kidde	891071

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APPENDIX I-C

PNEUMATIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
2	Emergency Air Storage Flasks		P/N to be supplied
2	Emergency Brake Valves	W.Kidde Co.	891071

L9E



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APPENDIX I-C

PNEUMATIC EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
2	Emergency Air Storage Flasks		1/2 to be supplied
2	Selector Valves		

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APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec. Number
136 19E 19F	4 Containers	Walter Kidde	891154
	4 Double Check Tees	Walter Kidde	891050
	1 Portable CO <sub>2</sub> Bottle (5-1b)	Walter Kidde	870906
	3 Portable Water Bottles	Walter Kidde	890275
AR	Fire Detectors (Single Loop System)	Fenwall	



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APPENDIX I-C

FIRE EXTINGUISHING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Read	Description	Manufacturer	Part or Spec. Number
4	Containers	Walter Kiddé	891154
4	Double Check Tees	Walter Kidde	891050
1	Portable CO <sub>2</sub> Bottle (5-lb)	Walter Kidde	870906
3	Portable Water Bottles	Walter Kidde	890275
4	Fire & Overheat Detector Panels		
AR	Fire Detectors		

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FIRE EXTINGUISHING EQUIPMENT

CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
AR	Containers		
AR	Double Check Tees ✓		
AR	Directional Valves ✓		
1	Portable CO <sub>2</sub> Bottle (5 lb)		
3	Portable Water Bottles ✓		
4	Fire & Overheat Detector Panels ✓		
AR	Fire Detectors ✓		



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## APPENDIX I-C

### FIRE EXTINGUISHING EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Read	Description	Manufacturer	Part or Spec. Number
4	Containers	Walter Kidde	891154
4	Double Check Tees	Walter Kidde	891050
1	Portable CO <sub>2</sub> Bottle (5 lb)		
3	Portable Water Bottles		
4	Fire & Overheat Detector Panels		
AR	Fire Detectors		

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## APPENDIX I-C

### FIRE EXTINGUISHING EQUIPMENT

#### CONVAIR FURNISHED - CONVAIR INSTALLED

Quan Reqd	Description	Manufacturer	Part or Spec Number
<del>AR</del> ✓	Containers	WALSH	891154(22-02429
<del>AR</del> ✓	Double Check Tees		891050(22-0243
<del>AR</del>	Directional Valves		
1	Portable CO <sub>2</sub> Bottle (5 lb)		
3	Portable Water Bottles		
4	Fire & Overheat Detector Panels		
AR	Fire Detectors		



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<u>Replacement Item</u>	<u>No. Men</u>	<u>Manhours</u>	<u>Elapsed Time</u>
Hydraulic Pump	1	.5	.5
Engine Oil Tank (partitioned tanks)	-	-	-
Constant Speed Drive Oil Tanks (partitioned tank)	-	-	-
Fuel Flow Meter	1	.5	.5
Engine Fuel Control	1	.6	.6
Engine Mounted Fuel Pump	1	.4	.4
Engine Oil Pressure Transmitter	1	.2	.2
Engine Ignition Box	1	.2	.2
Engine Ignitor Plug	1	.2	.2
Tailpipe Temperature Probe	-	-	-
Tailpipe Pressure Probe	1	.2	.2
Engine Anti-ice Valve	1	.5	.5
Engine Fuel/Oil Cooler	1	.5	.5
Fuel Pressurizing Valve	1	.5	.5
Pressure Ratio Transducer	1	.5	.5
Fuel Shut-Off Valve	1	.5	.5
Fuel Quantity Probe	-	-	-
Fuel Boost Pump	1	1.0	1.0
Fuel Tank Pressure Regulator	1	.3	.3
Fuel Tank Drain Valve	1	.2	.2
Engine Temperature Amplifier	1	.3	.3
Engine Oil Filter	1	.3	.3
Engine Pressurizing Valve	1	.3	.3
Variable Stator Actuator	1	1.0	1.0
Tachometer Generator	1	.3	.3
Engine Lube Scavenge Pump	1	.3	.3
Variable Stator Hydraulic Pump	1	.3	.3
Engine Lube Pump	1	.3	.3
Engine Rear Gear Box Scavenge Pump	1	.3	.3
Engine Transfer Gear Box Scavenge Pump	1	.3	.3
Starter Shut-Off Valve	1	.3	.3
Ice Detector	1	.3	.3
Fuel Strainer	1	.3	.3
Bleed Air Heat Exchanger	1	.3	.3
Auto-Pilot Amplifiers or Control Unit	1	.2	.2